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BULLETIN No. 130-75

HYDROLOGIC DATA: 1975
Volume IV: SAN JOAQUIN VALLEY

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OCTOBER 1976

CLAIRE T. DEDRICK
Secretary for Resources
The Resources Agency

EDMUND G. BROWN JR.
Governor
State of California

RONALD B. ROBIE
Director
Department of Water Resources

**VOLUME I
NORTH COASTAL
AREA**

**VOLUME II
NORTHEASTERN
CALIFORNIA**

**VOLUME III
CENTRAL
COASTAL
AREA**

**VOLUME IV
SAN JOAQUIN
VALLEY**

BULLETIN No. 130

**HYDROLOGIC DATA
AREAL COVERAGE OF VOLUMES**

Each Volume Contains

Appendix A: Climatological Data
Appendix B: Surface Water Measurements
Appendix C: Ground Water Measurements
Appendix D: Surface Water Quality
Appendix E: Ground Water Quality

This Volume



**VOLUME V
SOUTHERN CALIFORNIA**

FOREWORD

The data collection programs of the Department of Water Resources have been designed to supplement the activities of other agencies to satisfy specific needs of the State. Bulletin No. 130-75 presents useful, comprehensive, accurate, and timely hydrologic data which are prerequisites for monitoring environmental conditions as well as effective planning, design, construction, and operation of water facilities.

The Bulletin No. 130 series has been published annually in five volumes since 1963. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map to the left.

This Bulletin No. 130-75 is the last of this series to be published. It is to be replaced with a statewide Bulletin 130, "Hydrologic Data Index", which will show what data are available and where they may be obtained.



Ronald B. Robie, Director
Department of Water Resources
State of California

CONVERSION FACTORS

English to Metric System of Measurement

Quantity	English unit	Multiply by	To get metric equivalent
Length	inches (in)	25.4	millimetres (mm)
		.0254	metres (m)
	feet (ft)	.3048	metres (m)
	miles (mi)	1.6093	kilometres (km)
Area	square inches (in ²)	6.4516×10^{-4}	square metres (m ²)
	square feet (ft ²)	.092903	square metres (m ²)
	acres	4046.9	square metres (m ²)
		.40469	hectares (ha)
		.40469	square hectometres (hm ²)
		.0040469	square kilometres (km ²)
	square miles (mi ²)	2.590	square kilometres (km ²)
Volume	gallons (gal)	3.7854	litres (l)
		.0037854	cubic metres (m ³)
	million gallons (10 ⁶ gal)	3785.4	cubic metres (m ³)
	cubic feet (ft ³)	.028317	cubic metres (m ³)
	cubic yards (yd ³)	.76455	cubic metres (m ³)
	acre-feet (ac-ft)	1233.5	cubic metres (m ³)
		.0012335	cubic hectometres (hm ³)
		1.233×10^{-6}	cubic kilometres (km ³)
Volume/Time			
(Flow)	cubic feet per second (ft ³ /s)	28.317	litres per second (l/s)
		.028317	cubic metres per second (m ³ /s)
	gallons per minute (gal/min)	.06309	litres per second (l/s)
		6.309×10^{-5}	cubic metres per second (m ³ /s)
Mass	million gallons per day (mgd)	.043813	cubic metres per second (m ³ /s)
	pounds (lb)	.45359	kilograms (kg)
	tons (short, 2,000 lb)	.90718	tonne (t)
		907.18	kilograms (kg)
Power	horsepower (hp)	0.7460	kilowatts (kW)
Pressure	pounds per square inch (psi)	6894.8	pascal (Pa)
Temperature	Degrees Fahrenheit (°F)	$\frac{t_F - 32}{1.8} = t_C$	Degrees Celsius (°C)

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State of California
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Kern County Canal and Water Company
Buena Vista Water Storage District
Modesto Irrigation District
Turlock Irrigation District
Oakdale Irrigation District
Merced Irrigation District
Fresno Irrigation District
Kings River Water Association
Central California Irrigation District
Tule River Association
Fresno County Health Department
Kern County Health Department
Tulare County Health Department
Kern County Parks and Recreation Department
Kings County Water District

ABSTRACT

Report contains tables showing data on climate, surface water flow, ground water levels, and surface and ground water quality in the San Joaquin Valley for the 1974-75 water year. Figures show location of climatological, surface water, and surface water quality measurement stations; fluctuation of water levels in selected wells and areas; and electrical conductance at selected stations. Plates show lines of equal elevation of water in wells, spring 1975; profile of ground water levels; ground water areas; and well locations.

APPENDIX A
CLIMATOLOGICAL DATA

INTRODUCTION

This appendix summarizes monthly precipitation data in the San Joaquin Valley from July 1, 1974, to September 30, 1975, for stations which are not published by the National Weather Service. Also presented are annual precipitation values from 33 storage gages.

Figure A-1 shows the general location of all climatological observation stations in the San Joaquin Valley for which data are available in department files or files of the National Weather Service.

Table A-1 presents an explanation of column headings and code symbols used, and an index of climatological stations as shown on Figure A-1.

Table A-2 presents monthly precipitation data on 162 of the stations shown in the index.

Table A-3 presents storage gage precipitation data.

Precipitation data for stations shown in the index as still active and not published in this appendix are either published by the National Weather Service, or were not available at time of this publication.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits denote the alphabetical sequence of the station.

HYDROGRAPHIC AREA B

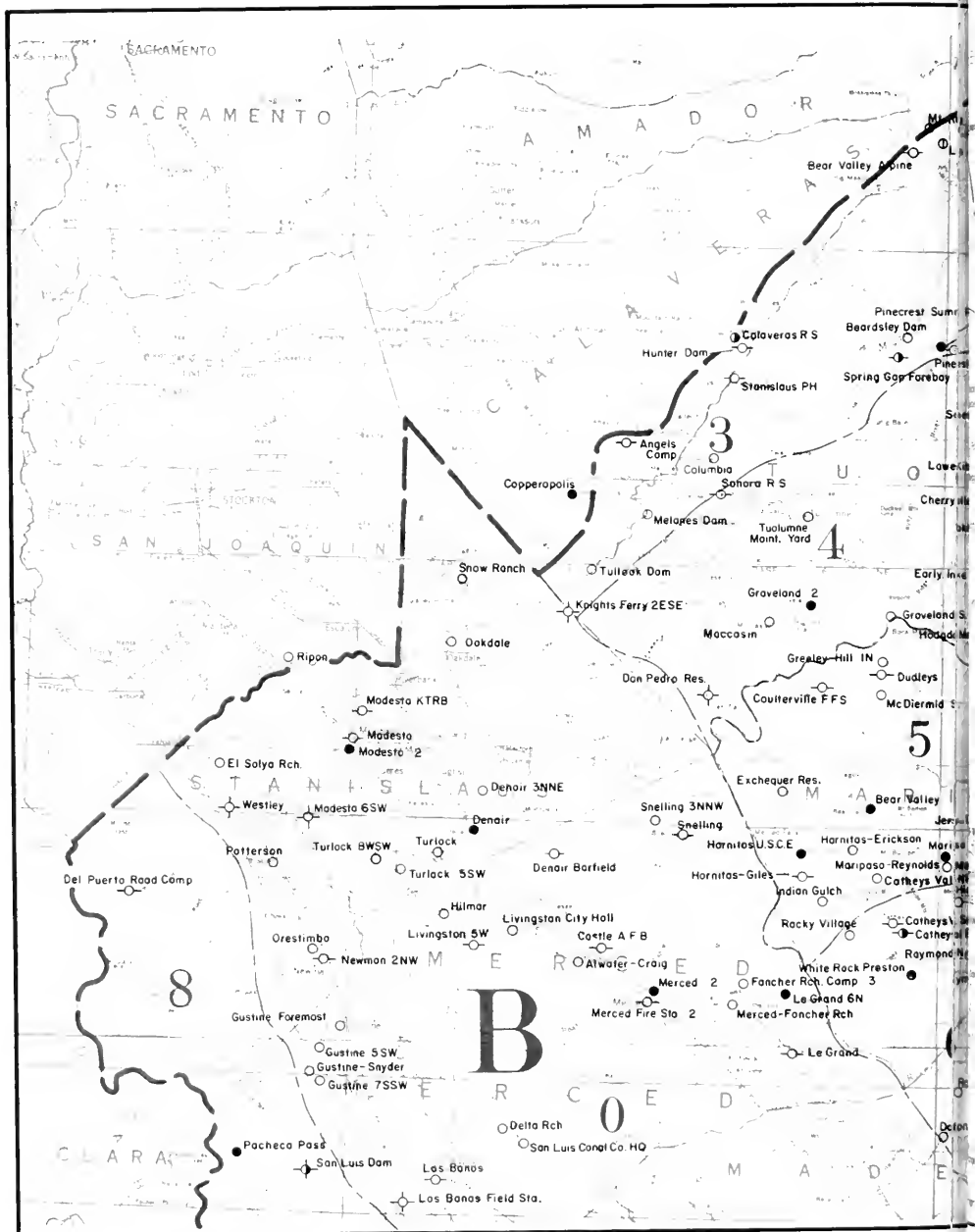
SAN JOAQUIN RIVER BASIN

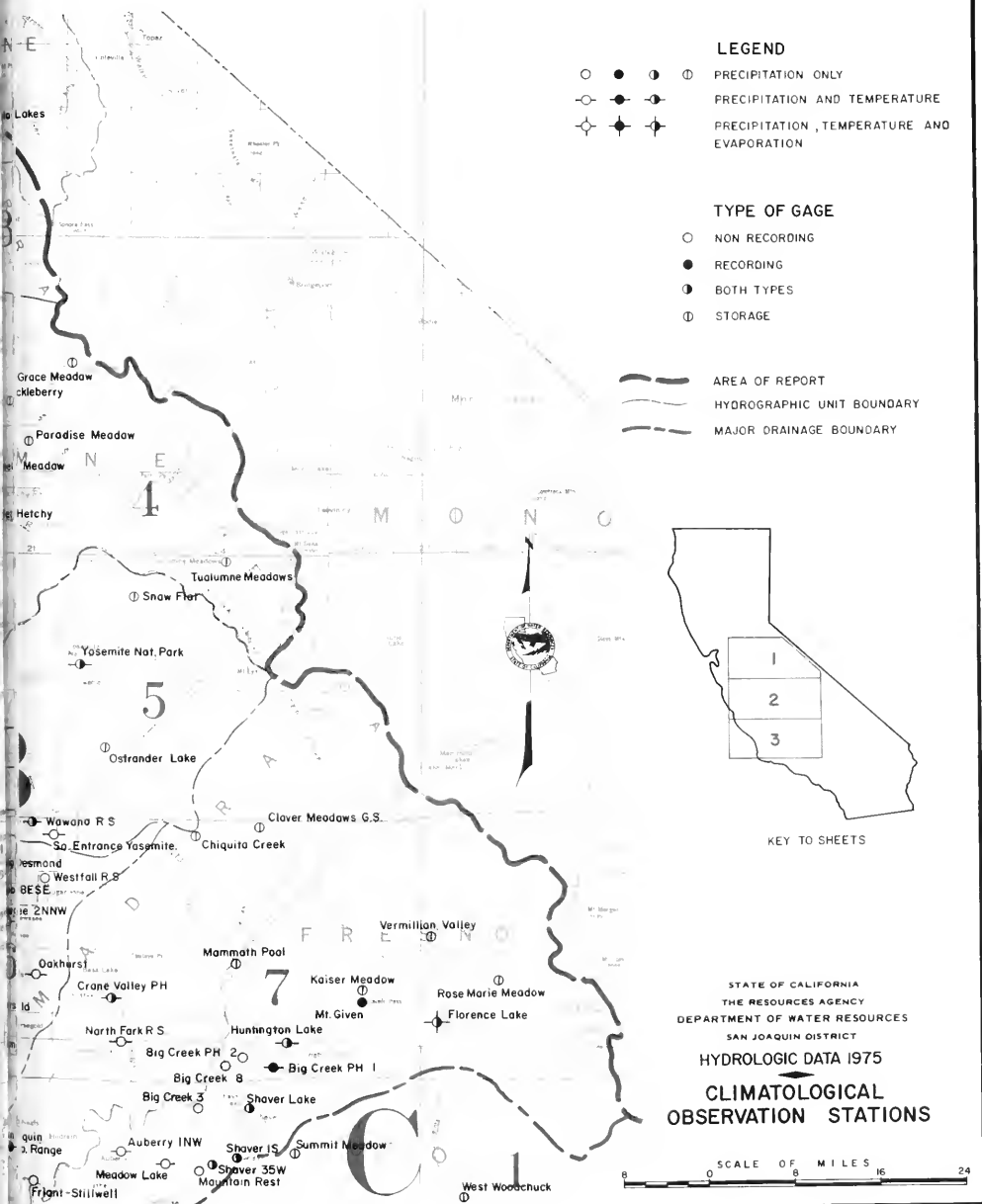
B0 - San Joaquin Valley Floor
B3 - Stanislaus River
B4 - Tuolumne River
B5 - Merced River
B6 - Fresno-Chowchilla Rivers
B7 - San Joaquin River
B8 - San Joaquin Valley on West Side

HYDROGRAPHIC AREA C

TULARE LAKE DRAINAGE BASIN

C0 - Tulare Lake Valley Floor
C1 - Kings River
C2 - Kaweah River
C3 - Tule River
C4 - Greenhorn Mountains
C5 - Kern River
C6 - Tehachapi Mountains
C7 - Tulare Lake Basin on West Side







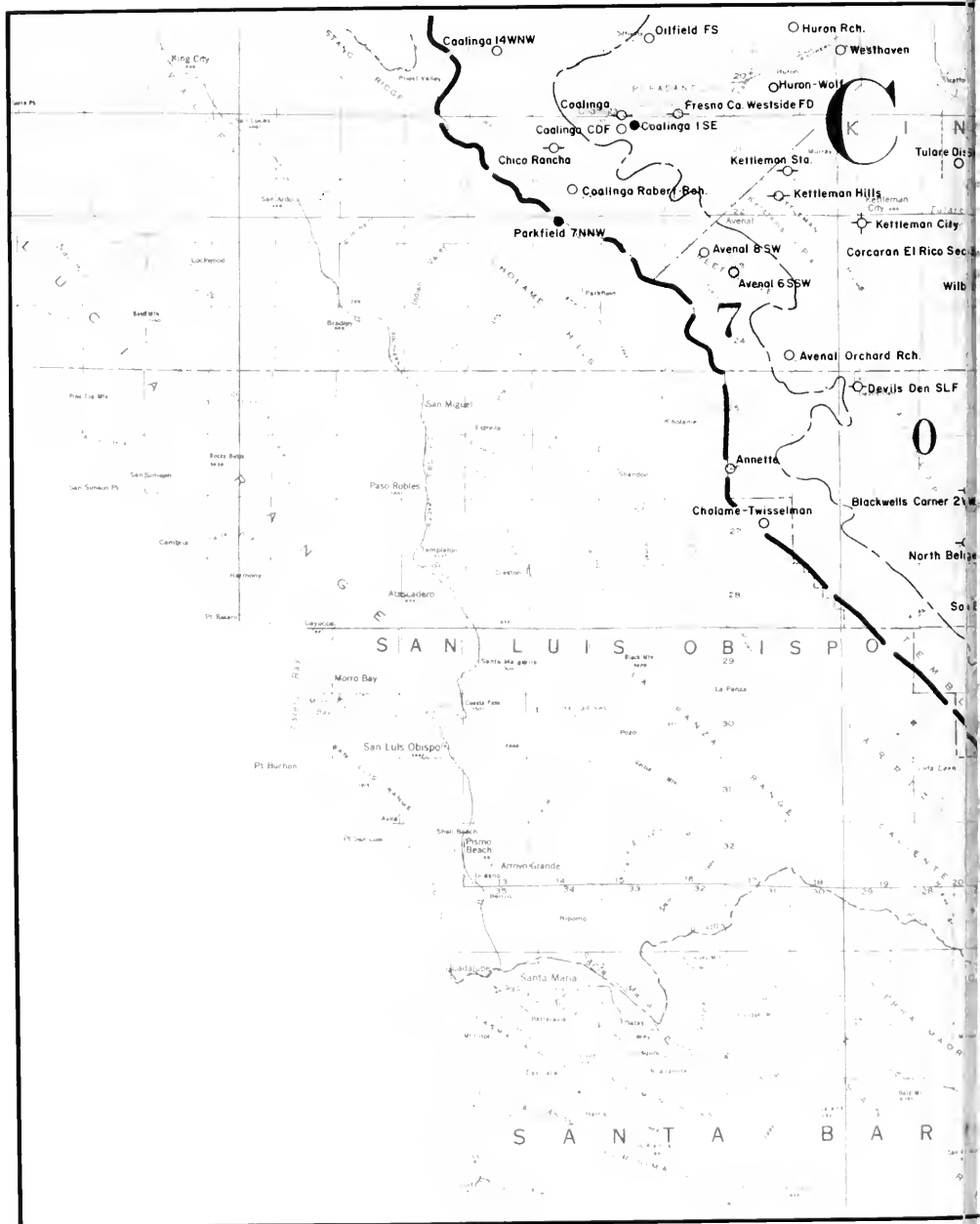






TABLE A-1

INDEX OF CLIMATOLOGICAL STATIONS

An explanation of the column headings and code symbols used in connection with this table follows:

40-Acre Tract. This denotes the location of the station within the section in which it is located. The letter code is derived from the following diagram:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Base and Meridian. The code for this column is as follows:

M - Mount Diablo Base and Meridian

S - San Bernardino Base and Meridian

Cooperators' Numbers. These numbers are assigned from the following list:

- 000 - Private Cooperators
- 001 - 399 Private Agencies
 - 001 Kern County Land Company
 - 002 Boswell Company
 - 003 Pacific Gas and Electric Company
 - 004 Southern California Edison Company
 - 005 California Electric Power Company
 - 010 Amateur Radio Weather Network KTRB
 - 011 Southern Pacific Transportation Company
 - 012 Miller and Lux, Inc.
 - 013 Central California Irrigation District
- 400 - 799 Counties and municipalities
 - 401 Hetch Hetchy Water Supply
 - 404 Oakdale Irrigation District
 - 405 City of Los Angeles, Department of Water & Power
 - 420 Stanislaus County
- 800 - 899 State
 - 801 Pomology Department, University of California, Davis
 - 804 Department of Parks and Recreation
 - 805 Department of Fish and Game
 - 806 Department of Water Resources
 - 808 Division of Forestry
 - 809 Department of Transportation

TABLE A-1 (Cont.)

814	University of California, Davis, Westside Field Station
815	University of California, School of Forestry
900 - 999	Federal
900	National Weather Service
902	U. S. Air Force, Air Weather Service
903	U. S. Army Corps of Engineers
904	U. S. Bureau of Reclamation
905	U. S. Forest Service
906	U. S. Department of Agriculture, Agricultural Research Service
907	National Weather Service (State Climatologist)
916	U. S. Geological Survey

Cooperators' (Coop) Index Numbers. These are the numbers assigned to the stations by the agencies responsible for handling the station records. With few exceptions, the alpha order numbers assigned to the National Weather Service stations are the same as those used by the National Weather Service. The National Weather Service station number is shown in this column only when it differs from the alpha order number.

Record Began. This is shown to year only.

Record Ended. If record continues this column is left blank.

Years Missing. This denotes missing record to the nearest full year.

County Code. Numbers used to designate specific counties are listed below:

Alpine	02
Calaveras	05
Fresno	10
Inyo	14
Kern	15
Kings	16
Madera	20
Mariposa	22
Merced	24
San Benito	35
San Joaquin	39
San Luis Obispo	40
Stanislaus	50
Tulare	54
Tuolumne	55
Ventura	56

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in Feet)	Section	Township	Range	40-Acre Tract Box & Meridian	Latitude	Longitude	Cooperator Number	Cooperator's Number	Record Began	Record Ended	Years Missing	County Code
Number	Name													
C1 0009	ACADEMY	545	SEC 14	T12S	R22E	P	36 52 58	119 32 25	000		1958	1970		10
B6 0049	AHWAHNEE 2 NNW	2680	SEC 24	T06S	R20E	M	37 23 22	119 44 07	907		1959			20
C0 0204	ANGIOLA	205	SEC 27	T22S	R23E	D	35 59 25	119 28 42	900		1899			54
B3 0209	ANGELS CAMP	1535	SEC 34	T03N	R13E	F	38 04 20	120 32 18	003		1908			05
C7 0215	ANNETTE	2140	SEC 19	T26S	R17E	F	35 38 48	120 10 12	000		1952	1974		15
C0 0332	ARVIN	445	SEC 23	T31S	R29E	M	35 12 00	118 49 00	000		1936			15
C2 0343	ASH MOUNTAIN	1708	SEC 34	T16S	R29E	L	36 29 30	118 49 35	900		1925			54
B0 0373-80	ATWATER CRAIG	150	SEC 02	T07S	R12E	M	37 21	120 37	000		1961	1969		24
C2 0374	ATWELL	6400	SEC 12	T17S	R30E	P	36 28 00	118 40 00	900		1948			54
B7 0379	AUBERRY 1 NW	2010	SEC 06	T10S	R23E	A	37 05 40	119 29 50	900		1915			10
C0 0399	AVENAL ORCHARD RCH	712	SEC 25	T24S	R17E	P	35 48 23	120 05 18	000		1919			16
C7 0399-01	AVENAL 8 SW	1424	SEC 03	T23S	R16E	G	35 57 33	120 13 25	000		1957			16
C7 0399-02	AVENAL 6 SSW	1565	SEC 18	T23S	R17E	K	35 55 30	120 10 05	000		1953			16
C2 0422	BADGER	3030	SEC 11	T15S	R27E	P	36 37 53	119 00 46	900		1940			54
C0 0440	BAKERSFIELD 1 W	400	SEC 26	T29S	R27E	H	35 22 41	119 02 17	900		1913	1969		15
C0 0442	BAKERSFIELD WB AP	494	SEC 02	T29S	R27E	Q	35 25 38	119 02 34	900		1933			15
C1 0449	BALCH POWERHOUSE	1720	SEC 12	T12S	R26E	B	36 54 33	119 05 15	900		1921			10
C1 0534	BARTON FLAT	3760	SEC 01	T13S	R28E	M	36 49	118 53	900		1961	1973		10
B3 0569-60	BEAR VALLEY ALPINE	7100	SEC 18	T07N	R18E	E	38 27 45	120 02 30	000		1967			02
B5 0570-80	BEAR VALLEY	2600	SEC 20	T04S	R17E	M	37 34	120 07	903		1960			22
B3 0573	BEARDSLEY DAM	3164	SEC 14	T04N	R17E	M	38 12 12	120 03 30	404		1959			55
C2 0596	BEARTRAP MEADOW	6800	SEC 29	T14S	R29E	M	36 41 00	118 52 00	900		1959			54
B4 0617	BEEHIVE MEADOW	6500	SEC 28	T02N	R20E	M	38 00 00	119 47 00	900		1947	1971		55
C0 0631	BELLEVEUE	369	SEC 07	T30S	R27E	B	35 20 11	119 05 27	001		1961	1969		15
C1 0676	BENNER RANCH	3525	SEC 27	T14S	R27E	C	36 41 05	119 01 50	000		1967	1973		10
B7 0755	BIG CREEK PH 1	4930	SEC 28	T08S	R25E	J	37 12 15	119 14 20	900		1915			10
B7 0755-01	BIG CREEK PH 2	3000	SEC 25	T08S	R24E	N	37 11 59	119 18 19	004		1913			10
B7 0755-02	BIG CREEK PH 3	1400	SEC 17	T09S	R24E	E	37 08 54	119 23 00	004		1922			10
B7 0755-05	BIG CREEK PH 8	2260	SEC 27	T08S	R24E	G	37 12 00	119 20 00	004		1921			10
C0 0875	BLACKWELLS CORNER 2 WNW	710	SEC 35	T26S	R19E	L	35 37 15	119 53 40	900		1944		13	15
C1 0880-80	BLASINGAME	1050	SEC 22	T11S	R23E	M	36 57 37	119 26 45	808		1961			10
C1 1069-11	BRETZ MILL	2550	SEC 27	T10S	R25E	D	37 02 18	119 14 24	905		1960	1967		10
C0 1174	BUENA VISTA RCH	310	SEC 04	T30S	R25E	R	35 21 00	119 19 00	001		1944	1969		15
C0 1175	BUENA VISTA RCH M&L	290	SEC 28	T31S	R26E	N	35 11 42	119 11 43	002		1955			15
C0 1175-80	BUENA VISTA RCH M&L 2	290	SEC 08	T31S	R25E	R	35 14 25	119 18 23	002		1962			15
C0 1244	BUTTONWILLow	270	SEC 34	T29S	R23E	K	35 24 00	119 28 00	900		1940			15
B3 1280	CALAVERAS RANGER STA	3343	SEC 18	T04N	R15E	L	38 11 50	120 21 55	900		1944			05
C3 1425	CAMP NELSON	4560	SEC 32	T20S	R31E	R	36 08 17	118 37 36	000		1959	1970		54
C0 1490	CANTUA RANCH	295	SEC 06	T17S	R15E	N	36 28 35	120 23 20	000		1955			10
C0 1557	CARUTHERS 4 E	265	SEC 14	T16S	R20E	B	36 32 48	119 45 30	000		1960	1971		10
B0 1580	CASTLE A F B	170	SEC 32	T06S	R13E	L	37 22 03	120 34 20	902		1951			24
B6 1588	CATHEYS VAL BULLRUN R	1425	SEC 34	T06S	R17E	H	37 23 56	120 03 08	900		1940			22
B5 1588-03	CATHEYS VALLEY 3 NNW	1250	SEC 28	T05S	R17E	B	37 28 33	120 06 33	000		1957			22
B6 1591	CATHEYS VAL STONEHOUSE	1210	SEC 14	T06S	R17E	M	37 24 30	120 05 00	000		1951	1970		22
C5 1647	CHAGOOFA	10390		T16S	R33E	M	36 30	118 27	901		1964			54
B4 1697	CHERRY VALLEY DAM	4765	SEC 05	T01N	R19E	L	37 58 00	119 55 00	900		1955			55
C7 1716-20	CHICO RANCHO	1350	SEC 20	T21S	R14E	M	36 05 13	120 29 22	000		1969			10
B7 1737	CHICOQUITO CREEK	7290	SEC 07	T05S	R24E	N	37 30 20	119 23 21	900		1961			20
C7 1743-02	CHOLAME TWISSELMAN	1675	SEC 15	T27S	R17E	R	35 35 00	120 07 00	000		1951			40
C6 1754	CHUCIAPATE R S	5260	SEC 04	T08N	R20W	S	34 48 00	119 01 00	900		1941			56
C0 1770-80	CITRUS	660	SEC 13	T11N	R20W	M	35 02 18	118 58 28	001		1963	1969		15
B7 1844	CLOVER MEADOWS	7002	SEC 06	T05S	R25E	M	37 32	119 17	900		1946			20
C0 1864	COALINGA	671	SEC 32	T20S	R15E	P	36 09 00	120 21 00	900		1942			10
C7 1864-02	COALINGA ROBERTS RCH	1350	SEC 03	T22S	R14E	R	36 02 18	120 26 40	000		1953			10
C0 1867	COALINGA 1 SE	663	SEC 04	T13S	R15E	J	36 07 39	120 20 38	900		1911			10
C7 1869	COALINGA 14 WNW	1640	SEC 33	T19S	R13E	M	36 14 00	120 34 00	900		1949			10
C0 1870-80	COALINGA CDF	690	SEC 05	T21S	R15E	Q	36 08 03	120 22 00	808		1961			10
B6 1878	COARSEGOLD	2363	SEC 05	T08S	R21E	M	37 16 00	119 42 00	907		1952			20
C0 1885	COIT RANCH HDQ	278	SEC 20	T14S	R14E	D	36 42 20	120 28 25	000		1954			10
B3 1944	COLUMBIA	2150	SEC 11	T02N	R14E	N	38 02 22	120 24 37	000		1969			55
B3 2003	COPPEROPOLIS	1000	SEC 34	T02N	R12E	K	37 59 00	120 38 00	903		1954		03	05
C0 2012	CORCORAN IRRIG DIST	200	SEC 15	T21S	R22E	P	36 05 53	119 34 51	900		1912			16
C0 2013	CORCORAN EL RICO 1	185	SEC 01	T22S	R21E	E	36 02 36	119 38 42	002		1958			16
C0 2013-05	CORCORAN EL RICO 33	190	SEC 33	T22S	R21E	Q	35 57 49	119 42 14	002		1951	1969		16
B5 2072	COULTERVILLE FFS	1870	SEC 33	T02S	R16E	A	37 43 25	120 12 68	008		1959			22
C5 2114	CRABTREE MEADOW	10700	SEC 01	T16S	R33E	M	36 34 00	118 21 00	000		1948			54
C6 2122	CRANE VALLEY PH	3440	SEC 25	T07S	R22E	M	37 17 26	119 31 35	003		1903			20
B6 2222-80	CUMMINGS VALLEY 2	3825	SEC 30	T32S	R32E	G	35 07	118 35	806		1961	1973		15
B6 2288	DAULTON	410	SEC 26	T09S	R18E	E	37 07 18	119 59 00	000		1946			20
C3 2335-10	DEER CREEK RCH	950	SEC 05	T23S	R29E	R	35 57 15	118 51 28	000		1968	1969		54

TABLE A-1 (Cont.)
INDEX OF CLIMATOLOGICAL STATIONS
SAN JOAQUIN VALLEY

Station		Elevation (in Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude			Longitude			Cooperator Number	Collection Index Number	Record Began	Record Ended	Years Missing	County	Code
Number	Name						O	I	II	O	I	II							
C0 2346	DELANO	323	SEC 11	T25S	R25E	A	M	35	46	23	119	14	37	900	1876			15	
C0 2346-01	DELANO GOV'T CAMP	394	SEC 28	T25S	R26E	E	M	35	48	35	119	11	00	904	1952			15	
B8 2369	DEL PUERTO ROAD CAMP	1125	SEC 12	T06S	R05E	Q	M	37	25	24	121	22	42	900	1958			50	
B0 2375	DELTA RANCH	90	SEC 26	T09S	R11E	M	M	37	07	00	120	44	00	013	1949		01	24	
B0 2389-05	DENAIR 3 NNE	137	SEC 20	T04S	R11E	M	M	37	34		120	47		900	1964			50	
B0 2389-20	DENAIR BARFIELD	165	SEC 20	T05S	R12E	E	M	37	29	18	120	40	47	000	1965			24	
C0 2408	DEVILS DEN SLF	500	SEC 07	T25S	R19E	M	M	35	45	55	119	58	22	000	1959			15	
C0 2436	DIGIORGIO	483	SEC 10	T31S	R29E	B	M	35	15	08	118	51	00	000	1937			15	
C0 2440-01	DINUBA ALTA 1 D	334	SEC 17	T16S	R24E	D	M	36	32	12	119	23	30	000	1944			54	
C7 2464	DOMENGINE RCH	1000	SEC 29	T18S	R15E	A	M	36	20	24	120	21	30	000	1959	1972		10	
C7 2464-01	DOMENGINE SPRING	1700	SEC 25	T18S	R14E	K	M	36	19	53	120	24	04	000	1958	1970		10	
B4 2473	DON PEDRO RESERVOIR	700	SEC 35	T02S	R14E	E	M	37	43	00	120	24	18	904	1940			55	
C3 2492	DOUBLEBUNK MEADOW	6200	SEC 11	T23S	R31E	M	M	35	57	00	118	36	00	900	1955	1970		54	
B5 2539	DUDLEYS	3000	SEC 21	T02S	R17E	D	M	37	45	14	120	06	30	900	1909			22	
C1 2577	DUSY BENCH	9470		T10S	R31E	M	M	37	06		118	35		900	1964			10	
C3 2591	EAGLE CREEK	6650		T22S	R31E	M	M	35	59		118	39		903	1964			54	
B4 2609	EARLY INTAKE PH	2356	SEC 11	T01S	R18E	C	M	37	52	30	119	57	25	401	1925			55	
C0 2752-80	EIGHTH STAND RCH	338	SEC 36	T32S	R27E	M	M	35	06	05	119	01	45	001	1963	1969		15	
B0 2820	EL SOLYO RCH	50	SEC 06	T04S	R07E	B	M	37	37	24	121	14	09	000	1953	1972		50	
B0 2860	ESCALON SWANSON	125	SEC 03	T02S	R09E	L	M	37	47	20	121	58	15	000	1944			39	
B5 2920	EXCHEQUER RESERVOIR	484	SEC 13	T04S	R15E	L	M	37	35	06	120	16	11	900	1935			22	
C0 2922	EXETER FAUVER RCH	439	SEC 20	T18S	R27E	D	M	36	21	28	119	04	45	900	1938			54	
B0 2968	FANCHER RCH CAMP 3	225	SEC 16	T07S	R15E	N	M	37	19	04	120	20	04	000	1959			24	
C7 3005	FELLOWS	1340	SEC 06	T32S	R23E	C	M	35	10	44	119	32	39	000	1956			15	
C0 3063	FIREBAUGH 9 W	185	SEC 26	T12S	R12E	R	M	36	51	04	120	37	03	000	1934	1969		10	
C0 3083	FIVE POINTS 5 SSW	276	SEC 17	T18S	R17E	M	M	36	21	48	120	09	22	900	1942			10	
C0 3084	FIVE POINTS DIENER	263	SEC 10	T18S	R17E	R	M	36	22	10	120	06	12	000	1933			10	
B7 3093	FLORENCE LAKE	7345	SEC 36	T07S	R27E	N	M	37	16	27	118	58	27	900	1940			10	
C0 3207	FOUNTAIN SPRINGS F S	800	SEC 26	T23S	R28E	Q	M	35	53	31	118	55	58	000	1965			54	
C0 3257	FRESNO WB AP	331	SEC 30	T13S	R21E	J	M	36	46	10	119	43	02	900	1899			10	
C0 3258-80	FRESNO CO WESTSIDE FD	600	SEC 31	T20S	R16E	Q	M	36	08	27	120	16	22	006	1963			10	
B7 3261	FRANT GOVERNMENT CP	410	SEC 07	T11S	R21E	A	M	36	59	00	119	43	00	900	1896			10	
B7 3261-05	FRANT STILLWELL	1009	SEC 23	T10S	R21E	B	M	37	03	07	119	38	48	000	1965			20	
C2 3397	GIANT FOREST	6412	SEC 06	T16S	R30E	E	M	36	34	05	118	46	01	900	1921			54	
C0 3428-01	GIN YARD	295	SEC 12	T32S	R25E	R	M	35	09	12	119	14	10	002	1960			15	
C4 3463	GLENNVILLE	3140	SEC 25	T25S	R30E	F	M	35	43	28	118	42	07	900	1951			15	
C4 3465	GLENNVILLE FULTON R S	3500	SEC 29	T25S	R31E	H	M	35	44	00	118	40	00	900	1940			15	
B4 3529	GRACE MEADOW	8900	SEC 31	T04N	R22E	M	M	38	09	00	119	36	00	900	1947	1970		55	
C1 3551	GRANT GROVE	6580	SEC 32	T13S	R28E	N	M	36	44	29	118	57	40	900	1924			54	
B5 3586-05	GREELEY HILL 1 N	3060	SEC 17	T02S	R17E	F	M	37	45	55	120	07	40	000	1965			22	
B4 3669	GROVELAND 2	2825	SEC 21	T01S	R16E	E	M	37	50	00	120	14	00	900	1940			55	
B4 3672	GROVELAND R S	1135	SEC 27	T01S	R17E	L	M	37	49	00	120	06	00	900	1940			55	
B0 3690-02	GUSTINE 5 SW	145	SEC 24	T08S	R08E	F	M	37	13	26	121	02	37	000	1927			24	
B0 3690-04	GUSTINE SNYDER	150	SEC 35	T08S	R08E	B	M	37	12	00	121	03	00	000	1930			24	
B0 3694	GUSTINE FOREMOST	98	SEC 08	T08S	R09E	B	M	37	15	28	120	59	53	000	1928			24	
B0 3698	GUSTINE 7 SSW	156	SEC 01	T09S	R08E	R	M	37	10	25	121	01	54	000	1958			24	
C0 3747	HANFORD	242	SEC 26	T18S	R21E	P	M	36	19	43	119	39	55	900	1899	1970		16	
C0 3749	HANFORD REFINERY	245	SEC 36	T18S	R21E	Q	M	36	18	59	119	39	10	000	1964			16	
C1 3811-11	HASLET BASIN	2400	SEC 14	T11S	R25E	K	M	36	58	18	119	12	54	905	1960			10	
B4 3939	HETCH HETCHY	3870	SEC 16	T01N	R20E	G	M	37	56	42	119	46	54	900	1910			55	
B6 3948	HIDDEN VALLEY	1750	SEC 01	T06S	R18E	J	M	37	26	00	119	56	24	000	1949			22	
B3 3952	HIGHLAND LAKES	8700	SEC 32	T08N	R20E	Q	M	38	29	48	119	47	48	900	1960			02	
B0 3981	HILMAR	93	SEC 22	T06S	R10E	A	M	37	24	10	120	50	59	000	1948			24	
C2 4012	HOCKETT MEADOWS	8500	SEC 07	T18S	R31E	M	M	36	22	00	118	39	00	900	1959			54	
B4 4015	HODGDON MEADOW	4640	SEC 03	T02S	R19E	M	M	37	48		119	52		907	1967			55	
C0 4061-01	HOMELAND DIST SEC 9	190	SEC 09	T23S	R22E	A	M	35	56	53	119	35	30	002	1952	1969		16	
B5 4102-01	HORNITOS ERICKSON RCH	1150	SEC 18	T05S	R17E	Q	M	37	29	40	120	08	55	000	1955			22	
B5 4103	HORNITOS GILES RCH	1050	SEC 29	T05S	R16E	H	M	37	28	10	120	14	00	000	1939			22	
B5 4104-80	HORNITOS USCE	850	SEC 17	T05S	R16E	G	M	37	30	10	120	14	08	901	1960			22	
C3 4120	HOSSACK (RADIO)	7100	SEC 16	T20S	R31E	M	M	36	11	00	118	37	00	900	1959			54	
B4 4148	HUCKLEBERRY LAKE	7800	SEC 23	T03N	R20E	M	M	38	06	00	119	45	00	900	1948	1971		55	
B3 4170	HUNTERS DAM	3220	SEC 18	T04N	R15E	K	M	38	12	00	120	21	36	900	1950			05	
B7 4176	HUNTINGTON LAKE	7020	SEC 15	T08S	R25E	R	M	37	13	45	119	13	10	900	1915			10	
C0 4188	HURON RANCH	335	SEC 22	T19S	R17E	M	M	36	15	10	120	06	05	000	1951			10	
B8 4204	IDRIA	2650	SEC 29	T17S	R12E	J	M	36	24	58	120	40	17	900	1918			35	
B5 4246	INDIAN GULCH	1000	SEC 03	T06S	R16E	J	M	37	26	18	120	11	46	000	1952	1970		22	
C5 4303	ISABELLA DAM	2660	SEC 19	T26S	R33E	F	M	35	38	18	118	26	45	903	1949			15	
C0 4312	IVANHOE 1 D	370	SEC 36	T18S	R25E	R	M	36	24	15	119	12	21	000	1954			54	
B5 4369	JERSEYDALE G S	3605	SEC 35	T04S	R19E	M	M	37	32	36	119	50		905	1958			22	
C5 4389	JOHNSONDALE	4680	SEC 32	T22S	R32E	K	M	35	58	13	118	32	27	900	1954			54	

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in feet)	Section	Township	Range	30-Acre Tract Base & Meridian	Latitude	Longitude	Cooperator's Index Number	Record Begin	Record End	Years Missing	County Code
Number	Name												
B7 4442	KAISER MEADOWS	9110	SEC 26	T07S	R26E	M 37 18 00	119 06 00	900		1946		10	
C2 4452	KAWEAH PH 3	1370	SEC 33	T16S	R29E	Q M 36 29 12	118 50 06	004		1913	1974	54	
C6 4463	KENE	20315	SEC 20	T31S	R32E	C M 35 13 28	119 33 55	000		1948		15	
C5 4513	KERN CANYON	700	SEC 06	T29S	R30E	B M 35 26 27	118 47 45	003		1916		15	
C5 4519	KERN R 3 INTAKE SCE	3642	SEC 12	T23S	R32E	F M 35 56 43	118 28 33	004		1921		54	
C5 4520	KERN RIVER PH NO 1	970	SEC 29	T28S	R30E	N M 35 27 37	118 46 48	900		1904		15	
C5 4523	KERN RIVER PH NO 3	2703	SEC 09	T25S	R33E	A M 35 46 35	118 26 08	900		1946		15	
C0 4534	KETTLEMAN CITY	310	SEC 19	T22S	R19E	F M 37 58 00	119 53 00	900		1930		16	
C0 4535	KETTLEMAN HILLS	1255	SEC 11	T22S	R17E	F M 36 01 50	120 06 15	000		1931		16	
C0 4536	KETTLEMAN STATION	508	SEC 25	T21S	R17E	L M 36 04 28	120 05 08	900		1933		16	
B0 4590	KNIGHTS FERRY 2 SE	315	SEC 27	T01S	R12E	M 37 47 54	120 38 42	900		1905		50	
B3 4664	LAKE ALPINE	7500	SEC 08	T07N	R18E	A M 38 28 42	120 00 48	900		1948		02	
B4 4679	LAKE ELEANOR	4662	SEC 03	T01N	R19E	F M 37 58 00	119 53 00	900		1909	1972	55	
C6 4863	LEBEC	3585	SEC 26	T09N	R19W	P S 34 49 58	118 51 51	900		1940		15	
B0 4894	LE GRAND	255	SEC 17	T08S	R16E	N M 37 13 50	120 14 50	900		1899		24	
B0 4894-05	LE GRAND 6 N	280	SEC 19	T07S	R16E	H M 37 18 39	120 15 05	000		1946		24	
C2 4890	LEMON COVE	513	SEC 02	T18S	R27E	N M 36 23 00	119 01 31	900		1899		54	
C0 4957	LINDSAY	395	SEC 12	T13S	R11E	M 36 47 24	119 04 20	900		1913		15	
B8 4979	LITTLE PANOCHE DET RES	677	SEC 20	T13S	R11E	M 36 47 24	119 04 20	900		1968	1975	10	
B0 4999-02	LIVINGSTON CITY HALL	130	SEC 25	T06S	R11E	E M 37 23 10	120 43 15	000		1948		07	24
B0 4999-03	LIVINGSTON 5 W	112	SEC 32	T06S	R11E	D M 37 22 29	120 47 40	000		1952		24	
C2 5026	LOGGEPOLE	6735	SEC 21	T15S	R30E	M 36 36 26	118 14 14	900		1968		54	
C6 5098	LORAIN	2720	SEC 17	T30S	R33E	F M 35 18 05	118 25 54	900		1941		15	
B0 5116	LOS BANOS 5 S	175	SEC 11	T11S	R10E	P M 36 59 02	120 50 45	013		1948		24	
B0 5117	LOS BANOS FIELD STA	160	SEC 32	T10S	R10E	Q M 37 00 54	120 53 55	904		1956		24	
B0 5118	LOS BANOS	125	SEC 23	T10S	R10E	L M 37 03 00	120 51 00	900		1873		24	
B8 5119	LOS BANOS ARBURUA	860	SEC 24	T12S	R09E	C M 36 52 52	120 56 25	900		1932		24	
B8 5120	LOS BANOS DET RES	407	SEC 12	T11S	R09E	M 37 01 12	120 56 25	900		1968		24	
C0 5151	LOST HILLS	285	SEC 35	T26S	R21E	N M 35 37 00	119 41 17	900		1912		15	
C1 5155-51	LOWER BIG CREEK	1078	SEC 04	T12S	R25E	J M 36 54 48	119 14 42	905		1960	1967	10	
B4 5160	LOWER KIBSEE RIDGE	6500	SEC 22	T02N	R19E	M 38 01 00	119 53 00	900		1948	1971	55	
B0 5233-03	MADERA I D YARD	270	SEC 32	T11S	R18E	N M 36 55 15	120 01 12	904		1952		20	
B0 5236	MADERA	200	SEC 13	T11S	R18E	M 36 58 12	120 03 00	900		1950		15	
C0 5257	MAGNUNEN	340	SEC 36	T29S	R28E	G M 35 21 42	118 55 18	004		1927		15	
B7 5288	MAMMOTH POOL	3400	SEC 11	T07S	R24E	D M 37 20 31	119 19 45	905		1947		20	
B0 5303	MANTECA	44	SEC 04	T02S	R07E	H M 37 47 12	121 12 12	900		1964		39	
C7 5338	MARICOPA	680	SEC 31	T12N	R23W	N S 35 04 48	119 22 58	900		1911		15	
C7 5338-01	MARICOPA F S	985	SEC 12	T11N	R24W	E S 35 04 48	119 22 58	900		1959		22	
B5 5346	MARIPOSA	2011	SEC 23	T05S	R18E	B M 37 29 10	119 58 00	900		1909		22	
B5 5346-01	MARIPOSA REYNOLDS	2000	SEC 23	T05S	R18E	B M 37 29 10	119 57 55	000		1958		22	
B6 5346-04	MARIPOSA 8 ESE	2780	SEC 06	T06S	R20E	E M 37 26 30	119 49 37	000		1952		22	
B5 5352	MARIPOSA RS	2100	SEC 15	T05S	R18E	F M 37 30 04	119 59 05	808		1943		22	
C7 5372-01	MARTINEZ SPRING	1875	SEC 26	T18S	R14E	B M 36 20 24	120 24 54	000		1959	1970	10	
B4 5400	MATHER	4518	SEC 02	T01S	R19E	G M 37 53 25	119 51 10	900		1930		21	55
B5 5460	MCDIERMID STA	2990	SEC 33	T02S	R17E	H M 37 43 18	120 05 48	000		1959	1969	22	
C7 5480-01	MCKITTRICK F S	1051	SEC 21	T30S	R22E	E M 35 18 20	119 37 20	000		1956		15	
B7 5496	MEADOW LAKE	4485	SEC 11	T10S	R23E	F M 37 04 38	119 26 00	900		1948		10	
B3 5511	MELONES DAM	900	SEC 12	T11N	R24W	E S 35 04 48	119 22 58	900		1955	1969	10	
B0 5526	MENDOTA 1 NW	172	SEC 25	T13S	R14E	H M 36 46 21	120 21 09	013		1941		10	
C0 5526-04	MENDOTA MURIETTA RCH	261	SEC 04	T15S	R14E	M M 36 39 05	120 27 20	806		1958		10	
B0 5528	MENDOTA DAM	166	SEC 19	T13S	R15E	G M 36 47 15	120 22 12	900		1873		10	
B0 5530	MENDOTA V D L FARMS	230	SEC 32	T13S	R14E	Q M 36 44 58	120 28 00	000		1948		10	
B0 5532	MERCED FIRE STN NO 2	169	SEC 25	T07S	R13E	M 37 17 43	120 29 13	900		1872		24	
B0 5534	MERCED FANCHER RCH	212	SEC 29	T07S	R13E	F M 37 47 12	120 21 09	000		1920		24	
B0 5535	MERCED 2	168	SEC 19	T07S	R14E	A M 37 18 53	120 28 12	900		1938		24	
C3 5669	MIL 5 NE	3400	SEC 18	T19S	R30E	C M 36 16 40	118 46 15	900		1957		54	
C6 5669-05	MIL POTRERO	5800	SEC 24	T09N	R22W	E S 34 51 02	119 11 18	000		1966		15	
C2 5680	MINERAL KING	7975	SEC 22	T19S	R31E	M 36 26 00	118 35 00	900		1956	1969	54	
C2 5708	MIRAMONTE HONOR CAMP	3005	SEC 12	T14S	R27E	D M 36 00 00	119 05 00	900		1958		10	
C1 5723	MITCHELL MEADOW	9700	SEC 33	T13S	R30E	M 36 45 00	118 43 00	900		1957		05	10
B4 5735	MOCCASIN	950	SEC 34	T01S	R15E	B M 37 48 40	120 18 20	401		1935		55	
B0 5738	MODESTO	91	SEC 29	T03S	R09E	H M 37 38 48	121 00 02	900		1926		50	
B0 5740	MODESTO KTRB	93	SEC 16	T03S	R09E	J M 37 40 12	120 58 42	010		1959	1974	50	
B0 5741	MODESTO 2	92	SEC 29	T03S	R09E	M M 37 38 36	121 00 29	900		1942		50	
C5 5777	MONACHE MEADOWS	8000	SEC 10	T20S	R35E	M 36 13 00	118 10 00	900		1940	1971	54	
C0 5822-80	MOODY RCH	405	SEC 34	T32S	R28E	M 35 06 15	118 58 00	001		1963	1969	15	
C1 5832	MORAIN CREEK	8840	SEC 27	T14S	R31E	M 36 43 33	118 34 33	903		1964		54	
C3 5887	MOUNTAIN HOME 2	5360	SEC 27	T19S	R30E	J M 36 14 30	118 42 54	901		1963		54	
B7 5927	MT GIVENS	9590	SEC 26	T07S	R26E	E M 37 17 19	119 06 00	004		1963	1969	10	
B0 6168	NEWMAN 2 NW	108	SEC 12	T07S	R08E	E M 37 20 33	122 50 00	900		1889		50	

TABLE A-I (Cont.)
INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Number	Record Began	Record Ended	Years Missing	County Code
Number	Name						O	I	II	O	I	II						
C0 6230-50	NORTH BELRIDGE	630	SEC 26	T27S	R20E	F M	35	33	04	119	47	28	000		1953			15
B7 6252	NORTH FORK R S	2630	SEC 18	T08S	R23E	M M	37	13	57	119	30	15	900		1904			20
B0 6303	OKADALE	155	SEC 11	T02S	R10E	N M	37	46	10	120	50	53	000		1880	01	50	
B6 6321-80	OKHURST	2250	SEC 14	T07S	R21E	L M	37	19	46	119	38	42	000		1961			20
C0 6393	OILFIELDS F S	950	SEC 26	T19S	R15E	F M	36	14	50	120	18	50	808		1952			10
C7 6395	OILFIELDS JOAQUIN RDG	3620	SEC 01	T19S	R14E	M	36	18	00	120	24	00	900		1949			10
C0 6414	OLD RIVER 3 W	334	SEC 35	T30S	R26E	C M	35	16		119	16		806		1965	1973		15
C5 6462	ONYX	2700	SEC 04	T26S	R35E	K M	35	41	00	118	14	00	903		1938			15
C0 6476	ORANGE COVE	431	SEC 13	T15S	R24E	K M	36	37	18	119	18	40	900		1931			10
B0 6490	ORESTIMA	110	SEC 02	T07S	R08E	D M	37	21	42	121	03	47	013		1896			50
B5 6552	OSTRANDER LAKE	8600	SEC	T03S	R22E	M	37	38	00	119	33	00	900		1947			22
B8 6583	PACHECO PASS	850	SEC 10	T10S	R07E	B M	37	04	00	121	11	00	900		1949			24
B8 6675	PANOCH	1265	SEC 25	T15S	R10E	F M	36	35	47	120	49	58	900		1922	1975		35
B8 6676	PANOCH 2 W	1320	SEC 21	T15S	R10E	M	36	36	30	120	52	48	407		1957			35
B0 6679-05	PANOCH WATER DIST	183	SEC 14	T12S	R11E	H M	36	53	24	120	43	43	000		1949			10
B4 6688	PARADISE MEADOW	7700	SEC 09	T02N	R21E	M	38	03	00	119	40	00	900		1948	1971		55
B0 6746-01	PATTERSON	100	SEC 30	T05S	R08E	M	37	28	00	121	07	00	000		1912			50
B6 6754	PATTIWAY	3868	SEC 19	T10N	R23W	E S	34	56	27	119	22	52	900		1915			15
C2 6767	PEAR LAKE	9700	SEC 24	T15S	R30E	M	36	36	00	118	40	00	900		1956	1969		54
B8 6847	PFEIFFER RCH	1615	SEC 19	T12S	R08E	C M	36	52	59	121	08	12	000		1954		02	24
B3 6893	PINECREST SUMMIT R S	5600	SEC 21	T04N	R18E	M	38	12		119	59		905		1964			55
B3 6893-01	PINECREST STRAWBERRY	5620	SEC 22	T04N	R18E	F M	38	11	25	119	59	12	003		1922			55
C1 6896	PINE FLAT DAM	615	SEC 02	T13S	R24E	A M	36	49	55	119	19	25	903		1949			10
C1 6902	PINEHURST	4050	SEC 23	T14S	R27E	D M	36	41	54	119	00	54	905		1954			10
C0 7077	PORTERVILLE	393	SEC 26	T21S	R27E	R M	36	03	58	119	01	14	000		1893			54
C0 7079	PORTERVILLE 3 W	413	SEC 20	T21S	R27E	R M	36	04	50	119	04	14	000		1958			54
C5 7093	PORTUGUESE MEADOW	7000	SEC 31	T24S	R32E	M	35	48	00	118	34	00	900		1953			54
C0 7096	POSEY 3 E	4920	SEC 28	T24S	R31E	M	35	48	00	118	38	00	900		1954		02	54
C0 7098-07	POSO CREEK	670	SEC 28	T27S	R27E	F M	35	33	15	119	04	25	000		1967	1969		15
C0 7098-11	POSO RCH	370	SEC 03	T27S	R25E	J M	35	36	30	119	15	45	001		1913	1969		15
B0 7099-11	POSO CANAL CO HDQ	125	SEC 12	T11S	R13E	P M	36	58	57	120	30	04	013		1955			10
C5 7179	QUAKING ASPEN	7200	SEC 08	T21S	R32E	M	36	07	00	118	32	00	900		1955	1970		54
C1 7259	RATTLESNAKE CREEK	9900	SEC 08	T11S	R30E	M	36	59	00	118	43	00	900		1961			10
B6 7270-01	RAYMOND 3 SSW	635	SEC 06	T09S	R19E	J M	37	10	32	119	55	55	000		1940	1970		20
B6 7272-01	RAYMOND 10 N	1640	SEC 32	T06S	R19E	A M	37	22	24	119	54	24	000		1957			22
B6 7276	RAYMOND 12 NNE	1600	SEC 25	T06S	R19E	R M	37	22	37	119	49	58	000		1954			22
C0 7288	RECTOR	344	SEC 03	T19S	R25E	J M	36	18	15	119	14	34	004		1888			54
C0 7354-80	REEDLEY MVFD	345	SEC 27	T15S	R23E	M	36	37		119	27		808		1962			10
B0 7447-80	RIPON	65	SEC 20	T02S	R08E	M	37	44	33	121	07	21	000		1963			39
C0 7460	RIVERDALE	220	SEC 24	T17S	R19E	P M	36	25	58	119	51	36	000		1917			10
B6 7528	ROCKY VILLAGE	820	SEC 19	T06S	R17E	K M	37	20	45	120	08	42	000		1957	1972		22
C3 7529	ROGERS CAMP	6240	SEC 09	T21S	R31E	M	36	04	24	118	38	12	901		1964			54
C0 7555	ROSEDALE	380	SEC 01	T29S	R26E	R M	35	25	40	119	07	42	001		1914	1969		15
B7 7560	ROSE MARIE MEADOW	10000	SEC 14	T07S	R28E	M	37	19	00	118	52	00	900		1953			10
C5 7579	ROUND MEADOW	9000	SEC 36	T22S	R33E	M	35	58	00	118	21	00	900		1947	1971		54
B4 7623	SACHS SPRINGS	7900	SEC 25	T03N	R19E	M	38	06	00	119	51	00	900		1948	1971		55
C0 7753	SAN EMIGDIO RCH	1450	SEC 36	T11N	R22W	L S	34	59	45	119	10	59	900		1901	1969		15
C0 7800-02	SANGER 1 NE	375	SEC 11	T14S	R22E	K M	36	43	30	119	32	36	000		1959			10
C0 7800-03	SANGER R S	375	SEC 11	T14S	R22E	E M	36	43	48	119	33	18	808		1958			10
C0 7816	SAN JOAQUIN	174	SEC 23	T15S	R16E	J M	36	36	25	120	11	15	000		1919			10
B7 7817	SAN JOAQUIN EXP RANGE	1100	SEC 06	T10S	R21E	E M	37	05	40	119	43	38	900		1934			20
C0 7819-80	SAN JOAQUIN MVFD	174	SEC 23	T15S	R16E	J M	36	36	28	120	11	18	808		1962	1970		10
B8 7846	SAN LUIS DAM	277	SEC 14	T10S	R08E	M	37	03		121	04		904		1959			24
B0 7855	SAN LUIS CANAL CO HQ	99	SEC 31	T09S	R12E	P M	37	06	07	120	42	04	013		1944			24
C0 7987-80	SANTIAGA RANCH	437	SEC 27	T12N	R22W	S	35	05	35	119	12	35	000		1963	1970		15
B0 8316	SNELLING	259	SEC 04	T05S	R14E	M	37	31	24	120	26	18	000		1882		19	24
B0 8316-05	SNELLING 3 WW	300	SEC 36	T04S	R13E	J M	37	32	35	120	28	57	000		1949	1974		24
B5 8318	SNOW FLAT	8700	SEC 19	T01S	R23E	M	37	50	00	119	30	00	900		1947		01	22
C1 8323-01	SOAPROOT SADDLE	3830	SEC 28	T10S	R25E	P M	37	01	30	119	15	06	905		1960	1967		10
B4 8353	SONORA R S	1745	SEC 36	T02N	R14E	M	37	59	00	120	23	00	900		1887			55
C0 8375-50	SOUTH BELRIDGE	575	SEC 28	T28S	R21E	R M	35	27	23	119	42	37	000		1938			15
B0 8378	SOUTH DOS PALOS	116	SEC 22	T11S	R12E	F M	37	58	45	120	38	48	000		1938			24
B5 8380	SO ENTRANCE YOSEMITE	5120	SEC 12	T05S	R21E	N M	37	30	26	119	37	55	900		1941			22
C0 8407-11	SOUTH LAKE FARMS HDQ	190	SEC 13	T23S	R21E	A M	35	56	02	119	38	46	000		1959			16
B3 8450	SPRING GAP FOREBAY	3000	SEC 27	T04N	R17E	H M	38	10	06	120	08	08	003		1921			55
C3 8455	SPRINGVILLE 7 ENE	2470	SEC 26	T20S	R30E	D M	36	09	47	118	42	21	900		1953			54
C3 8460	SPRINGVILLE R S	1050	SEC 02	T21S	R29E	B M	36	08	09	118	48	40	900		1924			54
C3 8463	SPRINGVILLE TULE HDW	4070	SEC 07	T20S	R31E	Q M	36	11	35	118	39	23	900		1907			54
C1 8474-80	SQUAW VALLEY FR	1750	SEC 35	T13S	R25E	P M	36	44	58	119	12	21	808		1961			10
B3 8499	STANISLAUS PH	1130	SEC 06	T03N	R15E	L M	38	08	23	120	22	10	900		1957			55

TABLE A-I (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in feet)	Section	Township	Range	+40 Area Tied Base & Meridian	Latitude		Longitude		Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name						O	I	O	I						
C1 8510	STATE LAKES	10300	SEC 34	T11S	R31E	M	36	56	00	118	35	00	1955		10	
C3 8620	SUCCESS DAM	590	SEC 35	T21S	R28E	L	36	03	00	118	55	00	1959		54	
C1 8643	SUMMIT MEADOW	6240	SEC 02	T10S	R25E	Q	37	05	12	119	12	36	1960		10	
C7 8752	TAFT	1025	SEC 14	T32S	R23E	J	35	08	34	119	27	53	1940		15	
C7 8755	TAFT KTRK RADIO	1030	SEC 14	T32S	R23E	G	35	08	50	119	28	18	1954		15	
C6 8826	TEHACHAPI	3975	SEC 21	T32S	R33E	M	35	08	00	118	27	00	1876		15	
C6 8832	TEHACHAPI AIRPORT	3975	SEC 21	T32S	R33E	C	35	08	05	118	26	31	1940		15	
C0 8839	TEJON RANCHO	1425	SEC 07	T11S	R18E	M	35	01	35	118	44	38	1895		15	
C5 8857-10	TEN HIGH MINE	5200	SEC 03	T27S	R31E	A	35	36	49	118	37	30	1968	1971	15	
C2 8868	TERMINUS DAM	965	SEC 36	T17S	R27E	E	36	24	37	119	00	20	1959		54	
C7 8893-80	THIRTY-TWO CORRAL	1700	SEC 32	T18S	R15E	P	36	18	47	120	21	51	1959	1970	10	
C2 8912	THREE RIVERS 6 SE	2200	SEC 16	T18S	R29E	C	36	22	00	118	51	00	1940		54	
C2 8914	THREE RIVERS PH NO 2	950	SEC 07	T18S	R29E	M	36	27	40	118	52	40	1909	1971	54	
C2 8917	THREE RIVERS PH NO 1	1140	SEC 08	T17S	R29E	K	36	27	58	118	53	40	1940		54	
C0 9006	TRANQUILLITY GLOTZ	165	SEC 16	T15S	R16E	C	36	37	57	120	14	13	1953		10	
B6 9020-15	TRIANGLE-DESMOND	3150	SEC 19	T05S	R20E	A	37	29	10	119	49	06	1965	1974	22	
C1 9025	TRIMMER R S	736	SEC 12	T12S	R24E	A	36	54	05	119	17	16	1948		10	
C0 9051	TULARE	253	SEC 01	T20S	R24E	N	36	12	45	119	19	50	1919		54	
C0 9051-04	TULARE DIST SEC 27	179	SEC 27	T21S	R20E	A	36	04	41	119	47	33	1953	1969	16	
C0 9052	TULEFIELD	300	SEC 18	T32S	R28E	B	35	09	00	119	01	00	1948	1970	15	
C3 9059	TULE RIVER INTAKE	2450	SEC 26	T20S	R30E	D	36	09	42	118	42	22	1910		54	
C3 9060	TULE RIVER PH	1240	SEC 06	T21S	R30E	D	36	08	07	118	47	15	1904		54	
C5 9061	TUNNEL R S	8950	SEC 10	T18S	R34E	M	36	22	00	118	17	00	1945		54	
B3 9062	TULLOCH DAM	515	SEC 01	T01S	R12E	L	37	52	30	120	36	12	1958		05	
B4 9062-90	TUOLUMNE NAUT YARD	2690	SEC 05	T01N	R16E	R	37	57	55	120	13	55	1969		55	
B4 9063	TUOLUMNE MEADOWS	8600	SEC 03	T01S	R24E	M	37	53	00	119	20	00	1947		55	
B0 9073	TURLOCK	115	SEC 22	T05S	R10E	D	37	29	28	120	51	00	1893		50	
B0 9073-01	TURLOCK 5 SW	76	SEC 30	T05S	R10E	Q	37	27	52	120	54	39	1958		50	
B0 9073-02	TURLOCK 8 WSW	60	SEC 28	T05S	R09E	D	37	28	22	120	59	30	1958		50	
C3 9120	UHL R S	3680	SEC 32	T23S	R31E	H	35	53		118	39		1965		54	
C0 9145	U S COTTON FIELD STN	367	SEC 33	T27S	R25E	J	35	32	00	119	16	40	1922		15	
B7 9301	VERMILLION VALLEY	7520	SEC 26	T06S	R27E	E	37	22	00	118	59	00	1946		10	
C0 9304	VESTAL	500	SEC 17	T24S	R27E	M	35	50	24	119	05	12	1920		54	
C1 9328	VIEDTTE MEADOW	9500		T13S	R33E	M	36	45		118	25		1961		54	
C0 9367	VISALIA	354	SEC 29	T18S	R25E	M	36	19	45	119	17	18	1903		54	
C0 9369	VISALIA 4 E	357	SEC 36	T18S	R25E	D	36	19	32	119	13	24	1959	1970	54	
C5 9417-10	WALKER BASIN	3450	SEC 10	T29S	R32E	E	35	25	17	118	32	35	1968		15	
C0 9452	WASCO	333	SEC 12	T27S	R24E	J	35	35	35	119	19	57	1899		15	
B5 9482	WADONA R S	3975	SEC 34	T04S	R21E	P	37	32					1941		22	
C5 9512	WELDON 1 WSW	2680	SEC 23	T26S	R34E	D	35	40	00	118	18	00	1940		15	
R6 9556-80	WESTFALL R S	4795	SEC 35	T05S	R21E	M	37	26	58	119	38	59	1961	1971	20	
C0 9560	WESTHAVEN	285	SEC 34	T19S	R18E	R	36	13	38	119	59	40	1925		10	
B0 9565	WESTLEY	85	SEC 33	T04S	R07E	B	37	33	00	121	12	00	1928		50	
C1 9600	WEST WOODCHUCK	9100	SEC 28	T10S	R28E	M	37	01	48	118	55	06	1969		10	
C5 9602	WEST MEADOW	8950	SEC 13	T18S	R32E	R	36	20	56	118	34	16	1954		54	
C2 9629	WHITAKER FOREST	5360	SEC 16	T14S	R28E	Q	36	42	05	118	55	56	1966		54	
B6 9640-80	WHITE ROCK PRESTON	984	SEC 07	T07S	R18E	K	37	20	12	120	02	18	1950		22	
C0 9670-80	WILBUR DITCH	210	SEC 18	T23S	R21E	D	35	36	10	119	45	10	1962		16	
C1 9749	WISHON LAKE	6560	SEC 01	T11S	R27E	M	37	00	40	118	58	20	1957		15	
C5 9754	WIFFORD HEIGHTS	2700	SEC 32	T25S	R33E	H	35	43	00	118	27	00	1894		15	
C4 9805	WOODY	1630	SEC 03	T26S	R29E	C	35	42	02	118	50	34	1956		15	
B5 9855	YOSEMITE NAT PARK	3985	SEC 20	T02S	R22E	M	37	45	00	119	35	00	1904		22	
ADDITIONAL STATIONS																
B0 5738-35	MODESTO 6 SW	50	SEC 03	T05S	R08E	C	37	32	05	121	04	30	1970		50	
B7 5893	MOUNTAIN REST	4100	SEC 17	T10S	R24E	R	37	03	18	119	22	12	1905		10	
C0 4564-20	KINGSBURG	286	SEC 02	T17S	R22E	M	36	30		119	33		1970		16	
C6 2683-20	EDMONSTON P P	1300	SEC 17	T10N	R18W	M	34	56	42	118	49	30	1971	1973	15	
C5 6724-50	PASCOES	9130	SEC 36	T22S	R33E	E	35	58		118	21		1971		54	
B7 8130-40	SHAVIER 1 S	5680	SEC 12	T10S	R24E	C	37	04	55	119	19	05	1973		10	
B7 8130-50	SHAVIER 3 SW	4900	SEC 09	T10S	R24E	R	37	04	08	119	21	02	1973		10	
C0 3257-30	FRESNO DWR	313	SEC 26	T13S	R20E	C	36	46	42	119	46	03	1968		10	
C0 5151-30	LOST HILLS DWR	312	SEC 03	T27S	R21E	E	35	36	52	119	41	40	1973		15	
C0 9724-60	WIND GAP	814	SEC 26	T11N	R20W	S	35	01	05	118	58	31	1974		15	
B7 5893	MOUNTAIN REST	4100	SEC 17	T10S	R24E	R	37	03	18	119	22	12	1905		10	
B6 6321-85	OSAHURST NO 2	2480	SEC 14	T07S	R21E	P	37	19	00	118	38	53	1969		10	
B0 8322	SNOW RANCH	240	SEC 12	T01N	R10E	Q	37	57		120	49		1934		50	
B5 8858-40	TENAYA LAKE	8150	SEC 21	T01S	R23E	B	37	50	14	119	27	00	1972		22	
B4 8931-50	TIOGA PASS	10000	SEC 31	T01N	R25E	B	37	54	39	119	15	30	1972		55	
B0 2389	DENAIR	122	SEC 06	T05S	R11E	R	37	31	20	120	47	40	1974		50	
B7 8140-01	SHAVIER LAKE	5373	SEC 13	T09S	R24E	K	37	08	48	119	18	08	1920		10	
B3 5975-25	MT. REBA	7800	SEC 06	T07N	R18E	F	38	29	35	120	02	25	1970		02	
C0 3257-15	FRESNO STATE UNIV.	340	SEC 12	T13S	R20E	B	36	49	18	119	44	27	1969		10	
C0 4188-20	HURON-WOLF	400	SEC 22	T20S	R17E	M	36	10	52	120	07	10	1975		10	

TABLE A-2
PRECIPITATION DATA

The definition of terms and abbreviations used in this table follows:

- E Wholly or partially estimated.
- T Trace, an amount too small to measure.
- NR Data not received before publication.
- RB Record begins.
- RE Record ends.
- INC Incomplete data.

Precipitation values are shown to the nearest hundredth (.01) of an inch, except where Fisher & Porter recording rain gages are used; these values are shown to the nearest tenth (.1) of an inch.

TABLE A-2 (Cont.)
PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1974						1975						TOTAL OCT 1 TO SEPT 30						
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE		JULY	AUG	SEP			
SAN JOAQUIN RIVER BASIN																				
SAN JOAQUIN VAL FL 80																				
CASTLE AFB	13.67	0.64	0.00	0.00	1.47	0.35	2.22	0.78	3.43	3.01	1.77	0.00	0.00	0.06	0.46	T				13.55
DELTA RCH	9.75	0.36	0.00	0.00	0.76	0.52	2.40	0.23	2.58	2.11	0.79	0.00	0.00	0.00	0.43	0.00				9.82
DENAIR	11.86	0.60	0.00	0.00	1.58	0.60	1.89	0.62	2.86	2.36	1.37	0.00	0.00	0.00	0.54	0.00				11.82
DENAIR BARFIELD F S	12.27	0.69	0.00	0.00	1.32	0.40	2.33	0.57	2.55	3.06	1.35	0.00	0.00	0.00	0.00	0.00				11.63
FANCHER RCH CAMP #5	NR	-	NR	-	RE															
GUSTINE 5 SW	10.72	0.32	0.00	0.00	0.62	0.23	2.85	0.22	2.82	2.87	0.79	0.00	0.00	0.02	0.53	T				10.95
GUSTINE SNYDER	10.32	0.30	0.00	0.00	0.54	0.23	3.00	0.23	2.90	2.80	0.62	0.00	0.00	0.00	0.00	0.00				10.62
GUSTINE FOREMOST	11.06	0.37	0.00	0.00	0.74	0.04	2.84	0.77	2.81	4.59	0.49	0.00	0.00	0.00	0.46	0.03				12.09
GUSTINE 7 SW	10.84	0.30	0.00	0.00	0.72	0.18	2.79	0.73	2.50	2.73	0.89	0.00	0.00	0.01	0.44	T				10.99
HILMAR	10.03	0.17	0.00	0.00	0.86	0.30	2.48	0.40	2.65	2.54	0.63	0.00	0.00	0.00	0.46	0.02				10.37
LE GRAND 6 N	13.69	0.07	0.00	0.00	1.34	1.02	2.11	0.65	4.13	3.19	1.18	0.00	0.00	0.00	0.40	0.08				14.10
LIVINGSTON CITY HALL	9.92	0.00	0.00	0.00	1.06	0.44	2.47	0.46	1.97	2.71	0.81	0.00	0.00	0.01	0.00	0.43				10.33
LIVINGSTON 5 W	9.66	0.25	0.00	0.00	0.70	0.49	1.47	0.23	2.89	2.63	0.90	0.00	0.00	0.00	0.45	0.02				9.78
LOS BANOS 5 S	8.71E	0.84	0.00	0.00	0.87	0.32	1.77	0.16	2.50E	1.45	0.80E	0.00	0.00	0.00	0.20E	0.00E				8.07E
LOS BANOS F S	9.84	0.40	0.00	0.00	0.67	0.43	2.10	0.12	2.45	2.69	0.98	0.00	0.00	0.04	0.22	0.01				8.71
MADERA 1 D	8.38	0.00	0.00	0.00	1.11	0.61	1.45	0.39	1.26	2.03	1.53	0.00	0.00	0.00	0.14	0.17				8.69
MENDOTA 1 NW	6.03	T	0.00	0.00	0.90	0.32	1.29	0.13	1.35	1.14	0.90	0.00	0.00	0.00	0.13	0.07				6.23
MENDOTA VOL FARMS	5.47	0.17	0.00	0.00	1.04	0.25	1.02	0.09	1.34	0.81	0.75	0.00	0.00	0.04	0.17	0.33				5.84
MERCED FANCHER RCH	13.14	0.18	0.00	0.00	1.05	0.55	2.46	0.77	4.09	2.87	1.17	0.00	0.00	0.00	0.40	0.04				13.40
MODESTO 6 SW	8.93	0.64	0.00	0.00	0.71	0.33	2.23	0.16	2.78	0.59	1.47	0.00	0.02	0.01	0.91	0.01				9.22
MODESTO WTRB		NR	0.50E	0.00	0.00	RE														
GAUDALE	13.70	0.83	0.00	0.00	1.45	1.13	1.90	0.83	3.03	3.80	0.73	0.00	T	0.00	0.43	T				13.30
ORESTIMA	10.96	0.25	0.00	0.00	0.65	0.22	1.68	0.47	2.38	3.34	0.97	0.00	0.00	0.00	0.67	0.15				11.53
FRANCIS WATER OIST	7.13	0.00	0.00	0.00	0.58	0.24	1.54	0.12	2.83	1.40	0.42	0.00	0.00	0.00	0.10	T				7.23
PATTERSON	11.16	0.63	0.00	0.00	0.56	0.27	2.78	0.20	2.17	3.56	0.99	0.00	0.00	0.00	0.68	0.01				11.22
POSO CANAL CO HQ	8.45	0.25	0.00	0.00	0.59	0.85	1.71	0.21	2.70	1.78	0.36	0.00	0.00	0.00	0.28	0.01				8.49
RIPON	11.53	0.73	T	0.00	1.13	0.89	1.71	0.66	2.86	2.86	0.69	0.00	0.00	0.00	0.69	0.00				11.49
STANISLAUS CANAL CO HQ	8.51	0.45	0.00	0.00	0.81	0.43	1.77	0.13	2.36	1.90	0.68	0.00	0.00	0.00	0.40	0.04				8.57
SNELLING F S	15.35	0.34	0.00	0.00	0.39	0.93	2.36	0.82	4.84	3.94	1.31	0.42	0.00	T	0.61	0.00				15.62
SNELLING 3 WNW		0.25	0.00	0.00	RE															
SNOW RANCH	14.57E	0.00	0.00	0.00	*	*	3.50	1.33	3.73	4.38	1.63	0.00E	0.00E	0.00E	0.70E	0.00E				15.27E
SPRING GAP FOREBAY	7.81	0.06	0.00	0.00	0.54	0.35	1.50	0.20	2.94	1.51	0.71	0.00	0.00	0.04	0.23	0.04				8.06
TURLOCK 5 SW	13.13	0.60	0.00	0.00	1.10	0.58	2.82	0.12	2.31	3.59	0.40	0.00	0.00	0.00	0.60	0.02				13.15
TURLOCK 8 WSW	11.93	0.40	0.00	0.00	0.88	0.30	2.18	0.58	2.52	4.02	1.05	0.00	0.00	0.00	0.75	0.00				12.28
WESTLEY	11.61	0.45	0.00	0.00	0.64	0.26	1.93	1.34	2.44	3.46	1.09	0.00	0.00	0.00	0.68	0.01				11.85
STANISLAUS RIVER #3																				
ANGELS CAMP	31.82	1.95	0.00	0.00	2.96	2.09	3.89	2.05	7.11	8.72	2.70	0.32	0.03	0.04	0.89	0.00				30.80
BEARDSLEY DAM	44.01	2.57	0.10	0.00	2.82	2.38	4.95	4.25	10.16	9.90	5.41	0.84	0.63	0.03	2.02	0.15				43.54
BEAR VALLEY - ALPINE	27.00	1.82	0.00	0.02	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR				28.07
COLUMBIA	36.86	1.68	0.00	0.00	3.53	2.13	3.61	3.82	8.30	8.94	4.24	0.55	0.06	0.04	0.77	0.01				36.00
CUPPERCOLIS	23.48E	1.49	0.00	0.00	2.10E	1.75	2.79	3.16	4.21	3.64	3.16	0.48	0.00	0.00	0.60	0.00				22.59
PINECREST STRAWBERRY	51.24	2.33	0.24	0.00	3.19	2.50	5.28	4.10	13.36	10.82	7.59	0.88	0.95	0.00	2.11	0.03				50.81
SPRING GAP FOREBAY	46.49	2.62	0.07	0.00	3.43	2.35	5.22	4.59	11.63	9.08	6.24	0.65	0.61	0.00	2.00	0.02				45.82
TULLOCH DAM	22.28	1.61	0.00	0.00	1.45	1.75	2.45	1.57	5.16	6.33	1.90	0.90	0.22	0.00	0.65	0.00				21.28
TULLOCH RIVER #4																				
DON PEDRO RES	20.56	0.52	0.00	0.00	1.91	1.22	2.89	1.60	5.26	5.16	1.78	0.17	0.05	0.05	0.61	0.00				20.70
EARLY INTAKE PH	39.45	0.80	0.00	0.00	3.09	1.68	4.42	3.21	10.68	9.28	5.06	0.70	0.33	T	1.13	0.05				39.63
HEDGEWAGON MEADOW	54.45	1.53	T	0.00	4.25	2.79	6.47	5.61	13.39	11.78	8.08	0.16	0.39	T	0.72	0.11				53.75
MOCCASIN	20.33	0.82	0.02	0.00	2.22	1.26	3.70	1.63	8.76	7.65	3.94	0.31	0.02	0.01	0.46	0.03				29.99
TULLOCH MAINT YARD	42.39	1.91	0.00	0.00	3.94	2.12	3.81	3.57	12.25	9.36	4.84	0.48	0.11	0.03	1.22	0.00				41.73
MERCED RIVER #5																				
BEAR VALLEY	29.66	0.72	0.16	0.00	3.36	1.18	4.00	3.01	8.78	6.82	2.13	0.00E	0.00E	0.00E	0.20E	0.00E				28.98
CATHEYS VALLEY 3 WNW	25.88	0.60	0.00	0.00	2.53	1.55	2.80	1.90	8.10	5.45	2.85	0.10	0.00	0.00	0.35	0.00				25.63
COUTLERVILLE FFS	29.26	1.59	0.00	0.00	1.85	1.72	2.94	3.03	8.95	6.48	3.70	0.00	0.00	0.03	0.32	0.05				28.07
GREELEY HILL 1 N	43.09	1.40	0.00	0.00	3.77	1.59	5.77	3.76	11.73	9.69	5.08	0.15	0.15	0.06	0.73	0.12				42.60
HORNITOS ERICKSON RCH	23.55	0.51	0.00	0.00	1.88	1.23	3.06	2.15	6.50	5.42	2.76	0.04	0.00	0.00	0.00	0.00				23.04
HORNITOS GILES RCH	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR				
HORNITOS	18.94E	0.40E	0.00E	0.00E	1.14E	0.68	2.63	4.28	3.53	4.43	1.83	0.02E	0.00E	0.00E	0.00E	0.00E				18.54E
JERSEYDALE G S	46.50	0.91	0.00	0.00	1.95	2.82	5.74	3.68	13.61	11.11	6.13	0.51	0.04	0.00	0.39	0.13				46.11
MARIPOSA REYNOLDS	38.70	0.74	0.00	0.00	3.89	2.30	5.46	2.62	10.70	7.57	4.90	0.30	0.02	0.00	0.15	0.12				38.23
MARIPOSA R S	32.43E	0.60E	0.00E	0.00E	3.49	1.13	3.86	3.22	8.91	7.40	4.17	0.25E	0.00E	0.00E	0.10E	0.00E				32.53E
FRESNO-CHOWCHILLA R #6																				
ALPINE 2 WNW	28.75	0.10	0.00	0.00	2.60	2.01	2.69	2.57	7.04	7.21	4.18	0.32	0.03	0.00	0.39	0.11				29.15
CORSEBOLD	28.74	0.11	0.00	0.00	2.56</															

TABLE A-2 (Cont.)
PRECIPITATION DATA

PRECIPITATION IN INCHES

[illegible]

TABLE A-2 (Cont.)
PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1974						1975								TOTAL OCT 1 TO SEPT 30	
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG		SEP
TULARE L BA WESTSIDE C7 (Cont.)																	
COALINGA ROBERTS RCH	15.05	0.00	0.00	0.00	0.51	0.25	3.11	0.07	6.04	1.70	1.13	0.00	0.00	0.00	0.00	0.00	15.33
FELLOWS	4.84	0.00	0.00	0.00	0.53	0.35	1.17	0.00	1.44	1.76	0.60	0.00	0.00	0.00	0.08	0.00	4.92
MARICOPA FS	7.67	0.00	0.00	0.00	1.09	1.63	1.63	0.01	1.02	1.26	0.63	0.00	0.00	0.00	0.08	0.00	7.75
MCKITTRICK FS	3.97	0.00	0.00	0.00	0.38	0.45	0.61	0.00	1.34	0.70	0.49	0.00	0.00	0.00	0.02	0.04	4.03
TAFT KTR	4.99	0.06	0.00	0.00	1.08	0.39	0.87	0.00	6.79	0.60	1.00	0.00	0.00	0.00	0.09	0.00	5.02

TABLE A-3
STORAGE GAGE PRECIPITATION DATA

SAN JOAQUIN VALLEY

Station	Agency	1974-75 Season		Precipitation in inches
		Measurement Period		
SAN JOAQUIN RIVER BASIN				
STANISLAUS RIVER B3				
HIGHLAND LAKES	DEPT OF WATER RESOURCES	7-10-74	7-10-75	32.6
LAKE ALPINE	DEPT OF WATER RESOURCES	7-10-74	7-10-75	66.3
MT. REBA	DEPT OF WATER RESOURCES	11- 7-74	9-24-75	43.24
TUOLUMNE RIVER B4				
TIOGA PASS	DEPT OF WATER RESOURCES	7- 9-74	7- 9-75	40.26
TUOLUMNE MEADOW	DEPT OF WATER RESOURCES	7- 9-74	7- 9-75	36.05
MERCED RIVER B5				
OSTRANDER LAKE	YOSEMITE NATL PARK SERVICE	7-25-74	8-26-75	57.45
SNOW FLATS	DEPT OF WATER RESOURCES	7- 9-74	7- 9-75	57.2
TENAYA LAKE	DEPT OF WATER RESOURCES	7- 9-74	7- 9-75	46.6
SAN JOAQUIN RIVER B7				
CHIUQUITO CREEK	DEPT OF WATER RESOURCES	7- 8-74	7-22-75	49.85
CLOVER MEADOW	DEPT OF WATER RESOURCES	7- 8-74	7-22-75	49.1
FLORENCE LAKE	SO CALIF EDISON COMPANY	9-20-74	9-22-75	20.29
KAISER MEADOW	SO CALIF EDISON COMPANY	9-24-74	9-18-75	45.62
MAMMOTH POOL	SO CALIF EDISON COMPANY	9-23-74	9-19-75	33.27
ROSE MARIE MEADOW	SO CALIF EDISON COMPANY	9-17-74	10- 7-75	38.11
VERMILLION VALLEY	SO CALIF EDISON COMPANY	9-11-74	9-16-75	21.70
TULARE LAKE BASIN				
KINGS RIVER C1				
DUSY BENCH	DEPT OF WATER RESOURCES	8-27-74	9-15-75	24.58
MORAIN CREEK	U S CORPS OF ENGINEERS			Not serviced
RATTLESNAKE CREEK	U S CORPS OF ENGINEERS	9-10-74	9- 9-75	41.05
SUMMIT MEADOW	DEPT OF WATER RESOURCES	7-19-74	7-24-75	54.35
VIDETTE MEADOW	U S CORPS OF ENGINEERS	9-10-74		Not serviced
KAWEAH RIVER C2				
ATWELL	U S CORPS OF ENGINEERS	10- 7-74	9-10-75	35.70
BEARTRAP MEADOW	U S CORPS OF ENGINEERS	9-10-74	9- 8-75	42.60
GIANT FOREST	U S CORPS OF ENGINEERS	10- 8-74	9-10-75	38.45
HOCKETT MEADOW	U S CORPS OF ENGINEERS	10- 9-74	9-11-75	33.90
TULE RIVER C3				
EAGLE CREEK	U S CORPS OF ENGINEERS	9-24-74	9-23-75	35.90
HOSSACK (RADIO)	U S CORPS OF ENGINEERS	9-25-74	9-25-75	42.10
MOUNTAIN HOME 2	U S CORPS OF ENGINEERS	9-26-74	9-25-75	36.65
ROGERS CAMP	U S CORPS OF ENGINEERS	9-26-74	9-24-75	35.75
KERN RIVER C5				
CHAGOOPA	U S CORPS OF ENGINEERS	10- 9-74	9-19-75	21.65
CRABTREE MEADOW	DEPT OF WATER RESOURCES	9-12-74	9- 6-75	20.00
PASCOES	U S CORPS OF ENGINEERS	9-24-74	9-23-75	33.55
PORTUGUESE MEADOW	U S CORPS OF ENGINEERS	9-24-74	8-18-75	42.80
TUNNEL R S	DEPT OF WATER RESOURCES	9-17-74	9-11-75	19.52
WET MEADOW	U S CORPS OF ENGINEERS	9-25-74	9-23-75	33.30
TULARE LAKE BASIN - WESTSIDE C7				
OILFIELDS JOAQUIN RDG	DEPT OF WATER RESOURCES	10-11-74	7-23-75	14.05

APPENDIX B
SURFACE WATER MEASUREMENTS



INTRODUCTION

This appendix presents surface water data for the 1975 water year, which is from October 1, 1974 to September 30, 1975. The data presented consist of daily mean discharge, daily mean gage height, gaging station location, diversion quantities, imported water to report area, exported water from report area, summary tables of monthly and annual unimpaired runoff from major streams, and corrections and revisions to previously published reports. *

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits further identify each station.

HYDROGRAPHIC AREA B	HYDROGRAPHIC AREA C
SAN JOAQUIN RIVER BASIN	TULARE LAKE DRAINAGE BASIN
B0 - San Joaquin Valley Floor	C0 - Tulare Lake Valley Floor
B3 - Stanislaus River	C1 - Kings River
B4 - Tuolumne River	C2 - Kaweah River
B5 - Merced River	C3 - Tule River
B6 - Fresno-Chowchilla Rivers	C4 - Greenhorn Mountains
B7 - San Joaquin River	C5 - Kern River
B8 - San Joaquin Valley on West Side	C6 - Tehachapi Mountains
	C7 - Tulare Lake Basin on West Side

In addition to data collected and published by the Department of Water Resources in this appendix, the U. S. Geological Survey collects and publishes data on many additional gaging stations for the same report area. This work is done under a federal-state cooperative contract, or through cooperative arrangements with other local or government agencies. The data published in the following reports together with this report present a comprehensive analysis of the water resources for the area:

1. Water Resources Data for California
Part 1, Surface Water Records
Volume 2: Northern Great Basin and Central Valley
United States Department of the Interior
Geological Survey
Prepared in cooperation with the California Department of Water Resources
and with other agencies.
2. Kings River Watermaster Report
Kings River Water Association
3. Water Supply
Fresno Field Division, U. S. Bureau of Reclamation
4. Bulletin 120, Summary of Water Conditions in California,
Department of Water Resources
5. Bulletin 157, Index of Stream Gaging Stations In and Adjacent to California, 1970,
Department of Water Resources
This index contains the period of record--with number of years missing--and more
information for 800+ stations in the San Joaquin Valley area. The index also
identifies the agency from which a particular record may be obtained.

*Figure B-1 shows station locations

ALPHABETICAL INDEX TO TABLES

DAILY MEAN DISCHARGE, DAILY MEAN GAGE HEIGHT

		Page	
		Daily Mean Discharge	Daily Mean Gage Height
Avenal Creek at Highway 33		91	
Bean Creek near Coulterville		60	
Bear Creek below Bear Reservoir		53	
at McKee Road near Merced		54	
at Merced Irrigation District West Boundary		55	
Buena Vista Creek near Taft		92	
Burns Creek below Burns Reservoir		56	
Campbell-Moreland Ditch above Porterville		82	
Chowchilla River, West Fork near Mariposa		48	
Cross Creek below Lakeland Canal #2		78	
Delta-Mendota Canal near Tracy		40	
to Mendota Pool		41	
Dry Creek near Modesto		69	110
Eastside Bypass near El Nido		49	
Fresno River Eight Miles West of Madera		47	
Lewis Fork near Oakhurst		44	
Friant-Kern Canal Delivery to Porter Slough		79	
to Tule River		80	
Hubbs-Miner Ditch at Porterville		87	
James Bypass near San Joaquin		39	
Kern River at Second Point		90	
near Bakersfield		89	
Kings River, South Fork, below Empire Weir #2		77	
Mariposa Creek near Catheys Valley		50	
below Mariposa Reservoir		51	
Maxwell Creek at Coulterville		61	
Merced River at Cressey		64	106
below Snelling		63	105
Miami Creek at Highway 49 near Ahwahnee		46	
near Oakhurst		45	
Musick Creek #1 near Shaver Lake		76	
Musick Creek #2 near Shaver Lake		75	
Mustang Creek near Ballico		65	
Orestimba Creek below Highway 33		66	
Owens Creek below Owens Reservoir		52	
Panoche Drain near Dos Palos		58	
Poplar Ditch near Porterville		86	
Porter Slough at Porterville		83	
Porter Slough Ditch at Porterville		84	
Salt Slough near Stevinson		59	
San Joaquin River near Dos Palos		43	
at Fremont Ford Bridge		62	104
below Friant		38	102
at Maze Road Bridge		71	113
near Mendota		42	
near Newman			107
at Patterson Bridge		67	108
near Stevinson		57	103
near Vernalis		74	117
Stanislaus River at Koetitz Ranch		73	116
at Orange Blossom Bridge		72	114
at Ripon			115
Tulare Lake			101
Tule River below Porterville		91	
Tuolumne River at Hickman Bridge		68	109
at Modesto			111
at Tuolumne City		70	112
Vandalia Ditch near Porterville		85	
Woods-Central Ditch near Porterville		88	
DIVERSIONS			
Deliveries from California Aqueduct			98
Deliveries from Central Valley Project Canals			96
East Side Canals and Irrigation Districts			95
San Joaquin River, Fremont Ford Bridge to Gravelly Ford			94
IMPORTS AND EXPORTS			99
CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS			118
UNIMPAIRED RUNOFF			
Annual			35
Monthly			36

Station Number

Daily Mean Discharge	Daily Mean Gage Height
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HYDROGRAPHIC AREA B

SAN JOAQUIN VALLEY FLOOR

B00435	Eastside Bypass near El Nido	49	
0470	Salt Slough near Stevinson	59	
0525	Mustang Creek near Ballico	65	
0770	Delta-Mendota Canal to Mendota Pool	41	
0975	Panoche Drain near Dos Palos	58	
3115	Stanislaus River at Koetitz Ranch	73	
3125	at Ripon		116
3175	at Orange Blossom Bridge	72	115
4105	Tuolumne River at Tuolumne City	70	114
4120	at Modesto		112
4130	Dry Creek near Modesto	69	111
4150	Tuolumne River at Hickman Bridge	68	110
5155	Merced River at Cressey	64	109
5170	below Snelling	63	106
5518	Bear Creek at Merced Irrigation District West Boundary	55	105
5525	at McKee Road near Merced	54	
5570	below Bear Reservoir	53	
6170	Owens Creek below Owens Reservoir	52	
6725	Fresno River Eight Miles West of Madera	47	
7020	San Joaquin River near Vernalis	74	116
7040	at Maze Road Bridge	71	113
7200	at Patterson Bridge	67	108
7300	near Newman		107
7375	at Fremont Ford Bridge	62	104
7400	near Stevinson	57	103
7610	near Dos Palos	43	
7710	near Mendota	42	
7885	below Friant	38	102
8735	Orestimba Creek below Highway 33	66	

MERCED RIVER

B51250	Maxwell Creek at Coulterville	61	
2580	Bean Creek near Coulterville	60	
6100	Burns Creek below Burns Reservoir	56	

FRESNO - CHOWCHILLA RIVERS

B62100	Mariposa Creek below Mariposa Reservoir	51	
2400	near Catheys Valley	50	
4300	Chowchilla River, West Fork near Mariposa	48	
7285	Miami Creek at Highway 49 near Ahwahnee	46	
7300	near Oakhurst	45	
7325	Fresno River, Lewis Fork near Oakhurst	44	

SAN JOAQUIN RIVER

B71406	Musick Creek #1 near Shaver Lake	76	
1408	Musick Creek #2 near Shaver Lake	75	

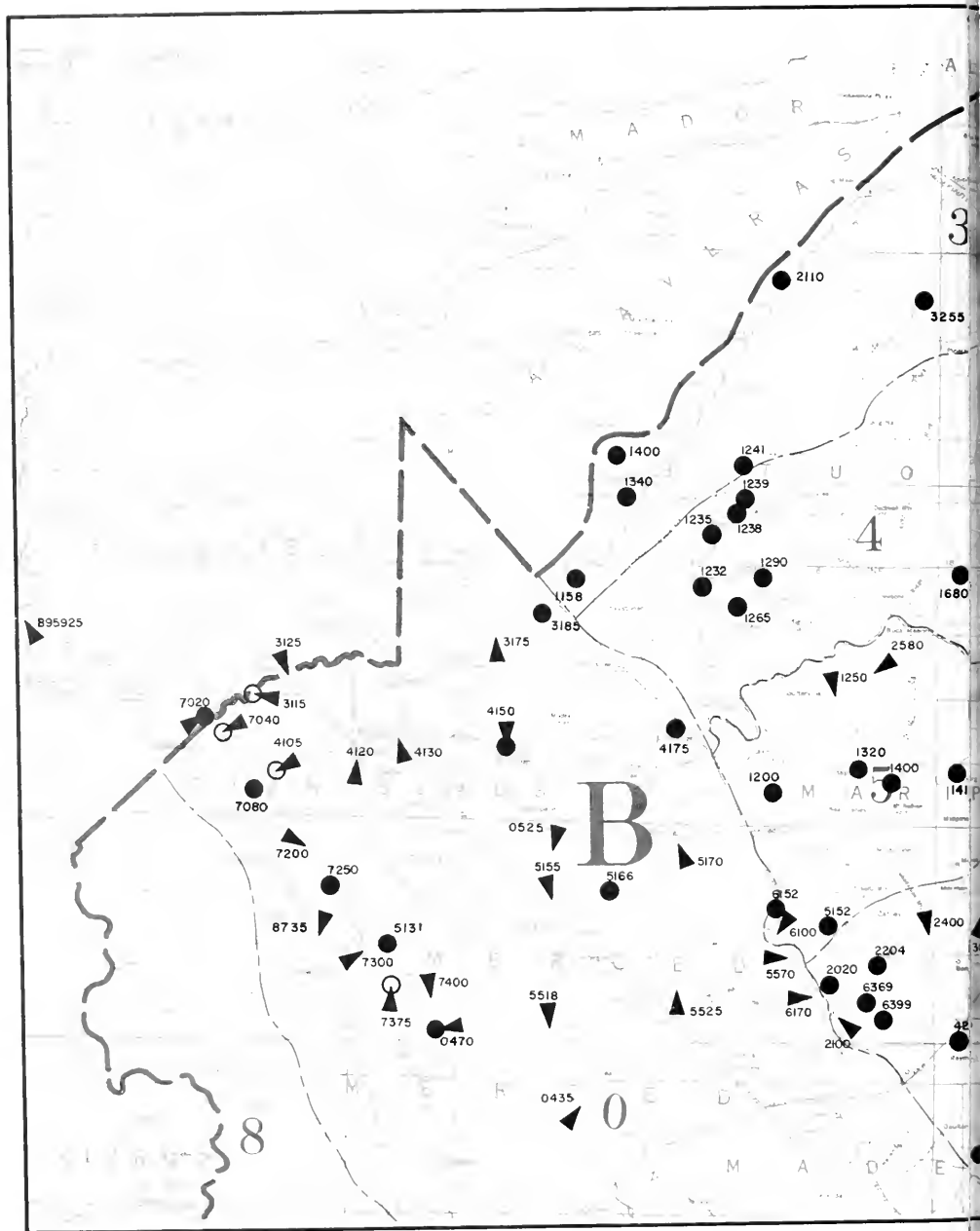
SACRAMENTO - SAN JOAQUIN DELTA

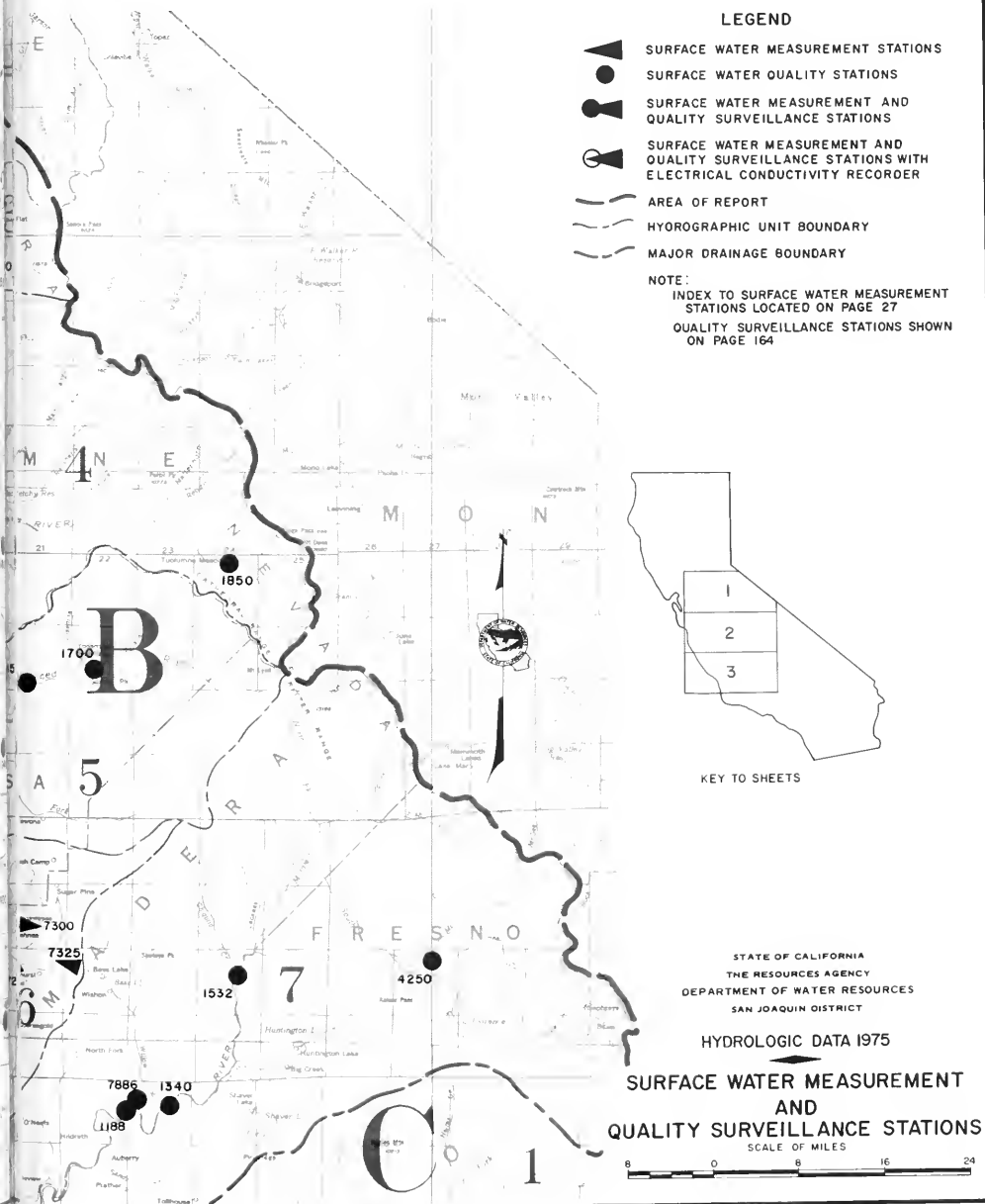
B95925	Delta-Mendota Canal near Tracy	40	
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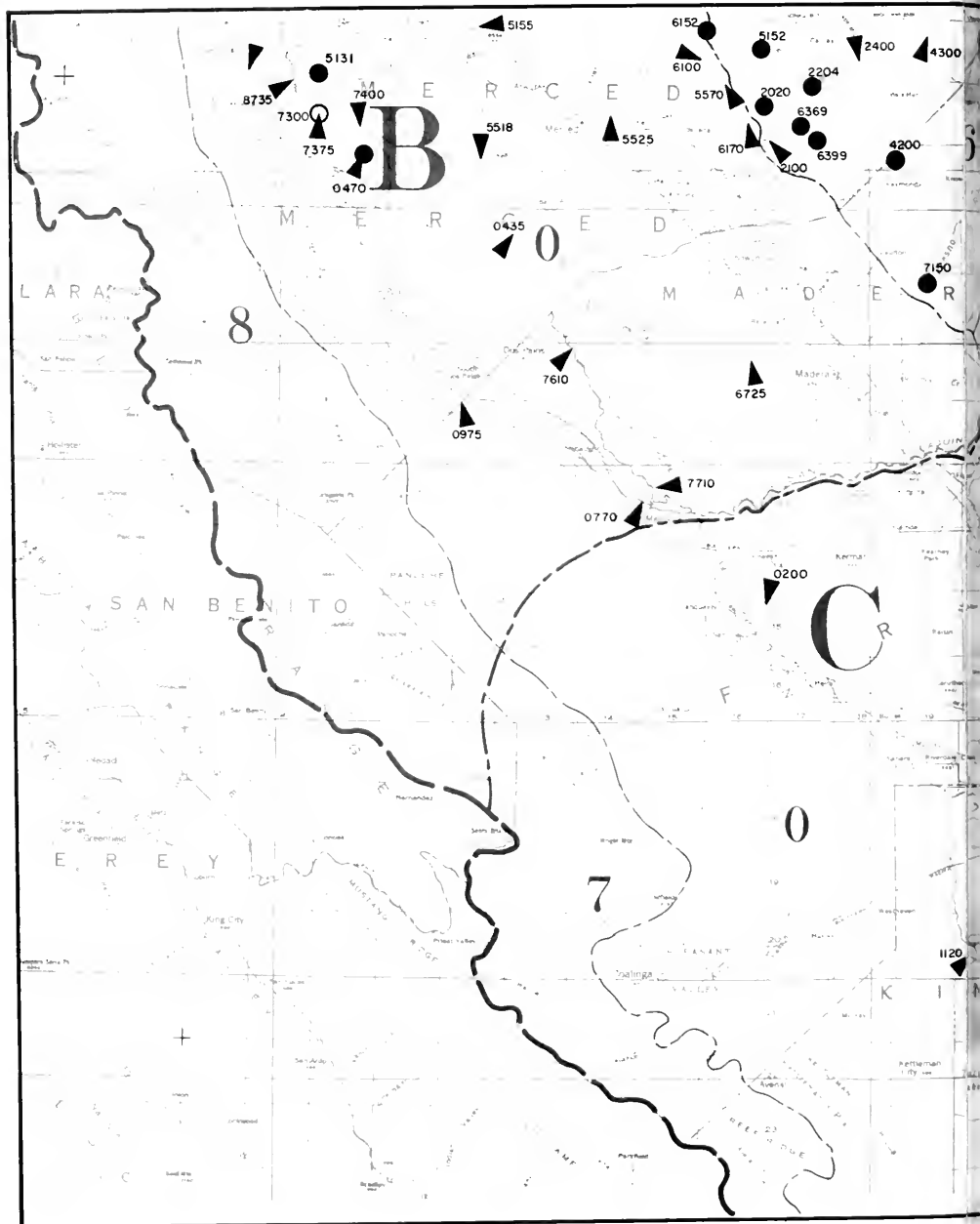
HYDROGRAPHIC AREA C

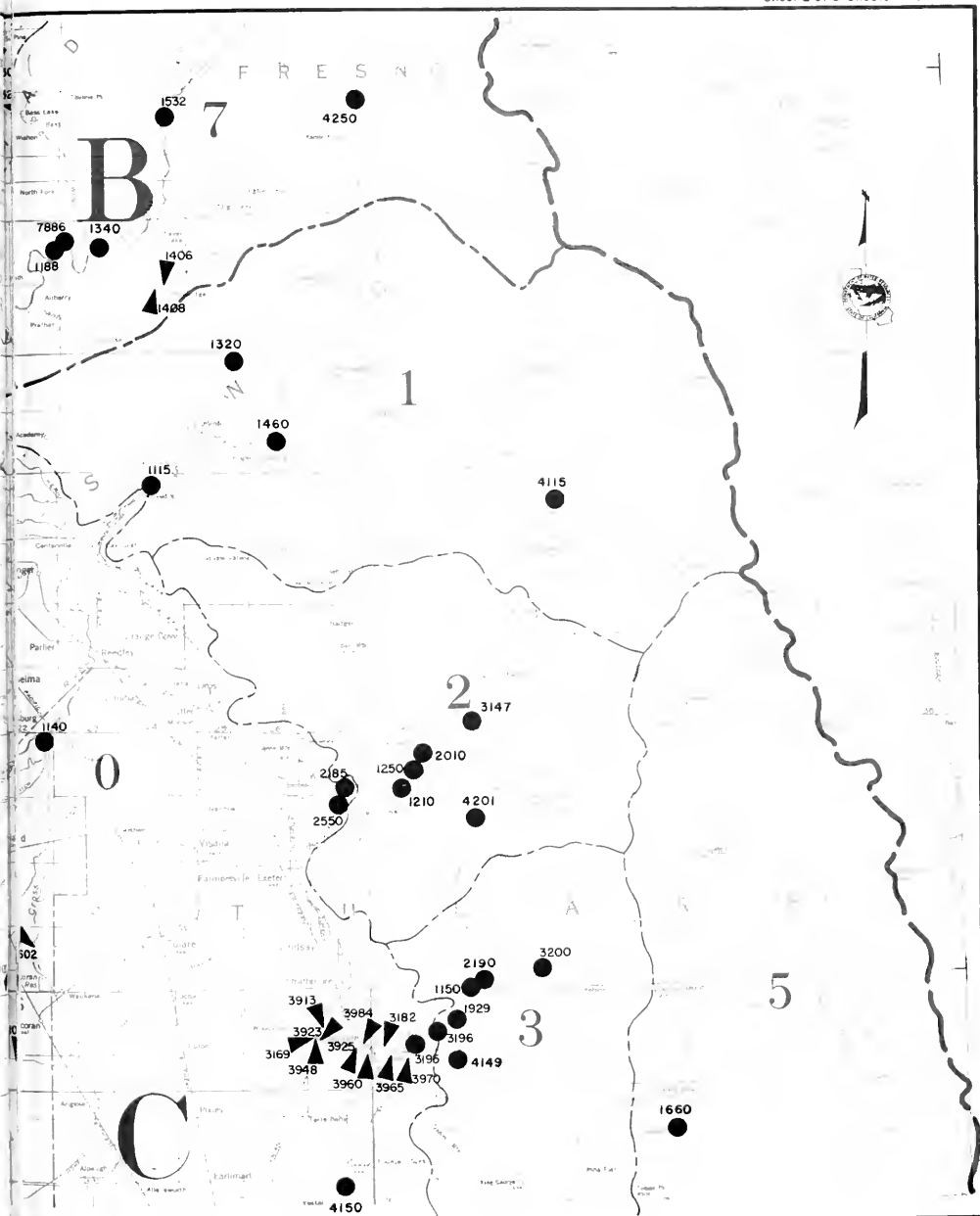
TULARE LAKE VALLEY FLOOR

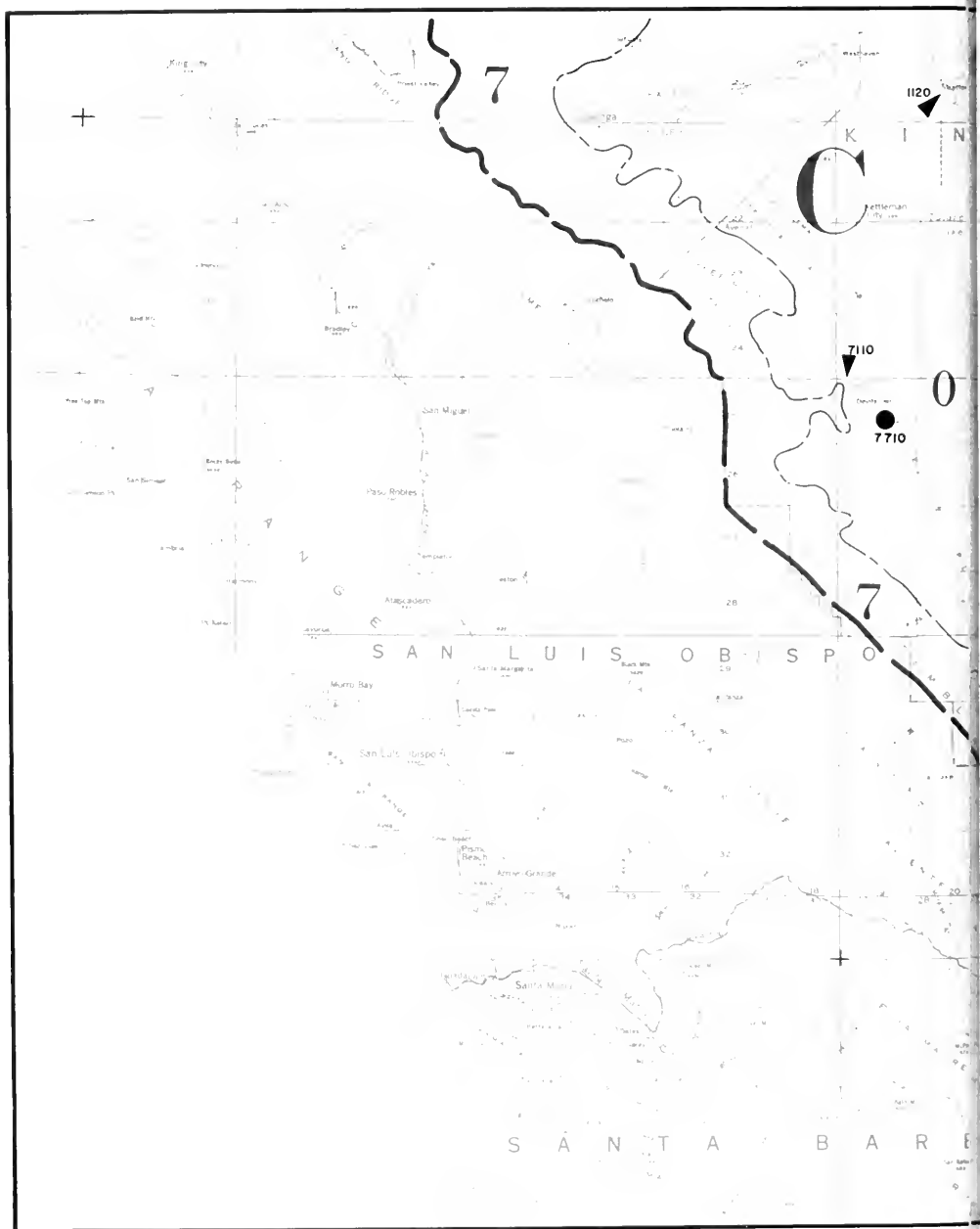
C00200	James Bypass near San Joaquin	39	
1120	Kings River, South Fork, below Empire Weir #2	77	
2602	Cross Creek below Lakeland Canal #2	78	
3110	Tulare Lake		101
3169	Tule River below Porterville	81	
3182	Porter Slough at Porterville	83	
3913	Friant-Kern Canal Delivery to Porter Slough	79	
3923	to Tule River	80	
3925	Hubbs-Miner Ditch at Porterville	87	
3948	Woods-Central Ditch near Porterville	88	
3960	Poplar Ditch near Porterville	86	
3965	Vandalia Ditch near Porterville	85	
3970	Campbell-Moreland Ditch above Porterville	82	
3984	Porter Slough Ditch at Porterville	84	
5150	Kern River near Bakersfield	89	
5180	at Second Point	90	
7115	Avenal Creek at Highway 33	91	
7120	Buena Vista Creek near Taft	92	

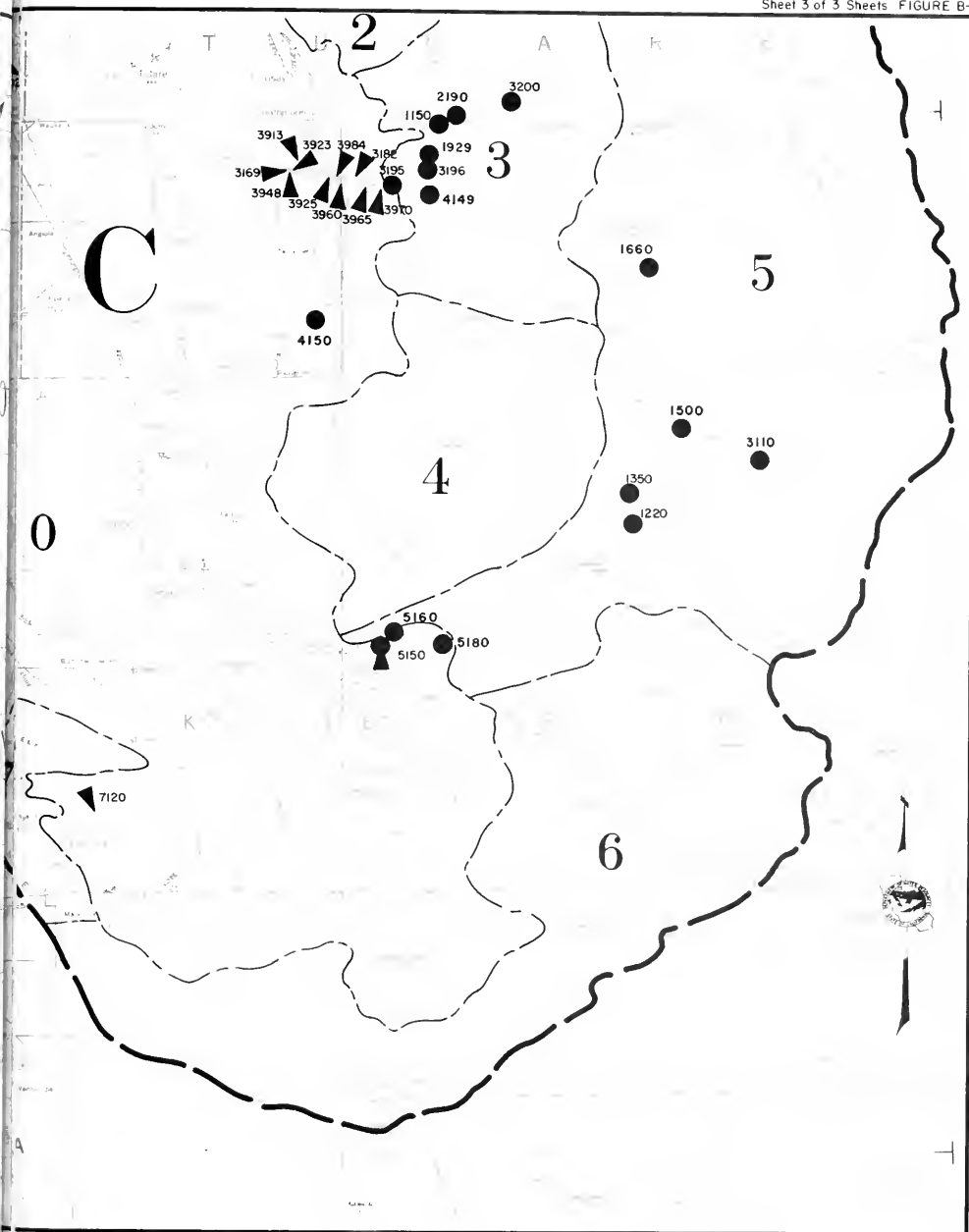












UNIMPAIRED RUNOFF

Unimpaired runoff is defined as the flow that occurs naturally at a point in a stream if there were: (1) no upstream controls such as dams or reservoirs; (2) no artificial diversions or accretions; and, (3) no change in ground water storage resulting from development. The computed natural or unimpaired runoff values are considered to be the flows that would occur if no impairments were upstream from the measurement points.

Table B-1 presents annual unimpaired runoff in percent of average for major streams.

Table B-2 presents monthly unimpaired runoff in percent of average for major streams.

The average unimpaired runoff is in thousands of acre-feet and was computed from the 50-year period October 1920 through September 1970.

TABLE B-1

ANNUAL UNIMPAIRED RUNOFF

In percent of average

Water Year	Stanislaus River Inflow to Melones	Tuolumne River Inflow to Don Pedro	Merced River Inflow to Exchequer	San Joaquin River Inflow to Millerton	San Joaquin River near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Isabella
Average Annual Runoff (a)	1085	1789	920	1659	5452	1568	404	133	629
1930-31	29	34	29	29	30	30	28	19	29
1931-32	125	118	121	123	121	133	129	104	111
1932-33	56	63	56	67	62	75	70	60	68
1933-34	39	45	39	42	42	42	32	15	37
1934-35	112	118	127	116	118	103	89	67	72
1935-36	122	121	125	112	119	120	121	128	119
1936-37	102	112	132	133	120	149	168	230	176
1937-38	188	192	226	222	206	209	216	267	205
1938-39	48	55	52	56	53	62	61	62	72
1939-40	129	124	119	113	121	114	127	158	111
1940-41	123	140	158	160	146	162	159	177	198
1941-42	137	133	140	136	136	128	122	102	119
1942-43	144	133	140	124	134	129	166	274	159
1943-44	62	73	74	76	72	75	78	77	92
1944-45	118	117	119	129	121	132	136	153	128
1945-46	109	105	102	104	105	103	88	71	103
1946-47	58	62	61	68	63	71	66	39	68
1947-48	83	79	75	73	77	64	65	48	53
1948-49	69	70	69	70	70	61	54	37	47
1949-50	99	87	78	79	85	82	75	47	69
1950-51	156	139	133	112	133	102	104	116	84
1951-52	177	167	170	171	171	182	204	241	221
1952-53	89	86	68	74	80	74	76	74	86
1953-54	82	81	73	79	79	83	76	67	80
1954-55	63	64	58	70	64	71	68	49	56
1955-56	174	177	182	178	178	162	180	157	139
1956-57	82	80	70	80	79	79	73	49	69
1957-58	155	148	153	159	153	157	159	168	167
1958-59	54	56	50	57	55	52	38	24	43
1959-60	55	59	52	50	54	45	45	36	44
1960-61	37	41	34	39	39	36	29	15	28
1961-62	92	99	101	116	103	118	98	65	104
1962-63	117	115	107	117	115	119	124	89	117
1963-64	60	64	49	56	58	54	57	45	50
1964-65	164	154	145	137	149	123	121	102	109
1965-66	65	73	73	78	73	77	61	35	64
1966-67	178	174	187	195	182	207	254	281	251
1967-68	59	57	46	52	54	51	54	48	73
1968-69	203	207	240	244	223	271	314	375	351
1969-70	122	108	95	87	102	82	88	91	94
1970-71	98	92	79	85	89	74	73	62	66
1971-72	71	64	63	66	66	54	42	26	39
1972-73	112	115	122	123	118	133	152	169	141
1973-74	144	122	126	132	130	131	121	115	122
1974-75 (c)	114	111	123	108	113	99	95	91	86

(a) Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.

(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from valley floor.

(c) Percent figures are preliminary values and subject to revision.

TABLE B-2
MONTHLY UNIMPAIRED RUNOFF
(a)

In percent of average

Month		Stanislaus River Inflow to Melones	Tuolumne River Inflow to Don Pedro	Merced River Inflow to Exchequer	San Joaquin River Inflow to Millerton	San Joaquin River near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Isabella
October	Percent	98	71	29	117	85	100	105	213	133
	Average	8	14	6	16	45	16	4	1	14
November	Percent	58	36	47	58	48	66	81	90	100
	Average	24	45	20	30	119	28	8	4	17
December	Percent	44	39	36	52	43	50	38	46	71
	Average	52	92	46	62	253	54	21	11	28
January	Percent	27	48	44	53	44	48	39	39	72
	Average	67	108	56	69	300	59	22	14	28
February	Percent	81	104	139	80	100	68	50	65	76
	Average	85	140	80	95	400	80	30	19	32
March	Percent	130	133	145	106	127	96	92	82	75
	Average	112	168	90	128	500	106	38	24	49
April	Percent	62	63	67	56	61	45	50	70	49
	Average	196	282	148	236	863	214	64	24	86
May	Percent	139	129	132	127	131	122	119	140	98
	Average	290	446	242	430	1408	429	105	22	145
June	Percent	185	169	195	156	171	141	152	150	109
	Average	179	352	168	369	1069	370	76	10	125
July	Percent	147	126	144	102	121	84	91	157	77
	Average	52	113	48	158	370	150	26	3	63
August	Percent	145	71	159	88	101	75	70	267	81
	Average	13	20	10	46	89	44	7	1	26
September	Percent	192	67	276	142	149	92	128	0	102
	Average	6	8	4	18	36	17	3	0	15
1974-75		Percent	114	111	173	108	113	99	95	86
Water Year Average			1085	1789	920	1659	5452	1568	404	629

(a) Percent figures are preliminary values and subject to revision. Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.

(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from the valley floor.

DAILY MEAN DISCHARGE

The streamflow data shown in Table B-3 are arranged, for each stream or stream system, in downstream order. Stations on a tributary entering between two main stem stations are listed between those stations, and in downstream order on that tributary. A stream gaging station is named after the stream and the nearest post office (Merced River at Cressey) or well-known landmark (San Joaquin River at Fremont Ford Bridge).

The discharges estimated for periods of no record or invalid record, are shown with the letter "E". Also, qualified by the letter "E" are discharges obtained from extended ratings which exceed 140 percent of the highest measured flow-rate on which the rating curve was based.

The discharge figures in this table have been rounded off as follows:

1. Daily flows - second-feet

0.0	- 9.9	nearest	Tenth
10	- 999	"	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand

2. Monthly means - second-feet

0.0	- 99.9	nearest	Tenth
100	- 9,999	"	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred

3. Monthly and yearly totals - acre-feet

0.0	- 9,999	nearest	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred
1,000,000	- 9,999,999	"	Thousand

Those streamflow data received from cooperating agencies are published as received and do not necessarily adhere to the above criteria.

TABLE B-3

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B07985	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	95 *	70	39	38	41	38	44	112	100	125	144	88	1
2	90	70	39	38	46	38	44	115	100	123	129	88	2
3	85	70	42	36	41	38	46	113	102	123	129	88	3
4	75	66	42	38	38	38	46	113	106	121	127	88	4
5	76	60	41	38	42	39	57	112	106 *	123	127 *	88	5
6	76	60	38	39	46	52	73	110	123	125	125	88	6
7	76	60	39	39	62	41	55	108	123	123	123	87	7
8	76	50	41	44	62	41	50	110	121	121	123	87	8
9	75	30	39	41	62	39	47	110	125	123	123	87	9
10	75	28	39	39	78	41	44	110	119	119	121	87	10
11	73	28	39	39	65	52	44	110	117	112	119	83	11
12	73	28	39	38	63	46	42	108	121	112	119	82	12
13	73	28	41	38	65	47	39	110	121	110	119	82	13
14	73	30	41	38	63	65	39	112	123	110	112	82	14
15	71	32	41	38	47	46	44	112	121	110	100	75	15
16	71	33	41	38	41	49	42	112	115	110	99	70	16
17	70	33	41	38	38	49	42	115	117	110	99	70	17
18	70	32	38	39	36	42	41	115	119	108	99	71	18
19	70	32	38	39	38	42	42	112	121	110	99	71	19
20	71	32	39	38	39	41	36	112	119	110	99	71	20
21	71	34	38	38	39	42	41	110	121	108	97	71	21
22	73	36	38	38	38	100	33	102	121	110	95	71	22
23	76 *	34	38	38	38	66	77	100	121	108	90	71	23
24	78	34	38	38	39	54	136	100	123	121	92	70	24
25	75	34	38	38	41	66	136	99	123	142	94	70	25
26	80	36 *	39	39	41 *	68	100	95	123	142	94	68	26
27	80	36	39	39	41	57	76	95	125	151	94	73	27
28	83	36	39	38	41	54	75	97	125	163	94	82	28
29	82	38	38	39	49	50	90	97	125	163	94	82	29
30	82	38	38 *	39	49	110 *	97	97	125 *	160	94	82 *	30
31	76	38	38	39 *	47 *	47 *	99	99	160	160	90	82 *	31
MEAN	76.5	40.9	39.3	38.6	47.5	49.6	59.7	107	118	124	108	79.1	MEAN
MAX	95	70	42	44	78	100	136	115	125	163	144	88	MAX
MIN	70	28	38	36	36	38	33	95	100	108	90	68	MIN
AC. FT	4710	2440	2420	2370	2640	3050	3550	6590	7040	7650	6670	4710	AC. FT

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE 74.4	DISCHARGE 163	GAGE MT. 7	ACRE FEET 53830
	MO 7	DAY 28	
	TIME Daily	TIME Daily	
	DISCHARGE 28	GAGE MT. 11	
	MO 11	DAY 10	
	TIME Daily	TIME Daily	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM
			CFs	GAGE MT	DATE					
36 59 04	119 43 24	SW 7 11S 21E	77,000 12,400 ^a	23.8 11.69	12-11-37 6-6-69	OCT 07-DATE		1938	TO	294.00 USGS
Station located 2 miles downstream from Friant Dam and 1.5 miles downstream from Cottonwood Creek. Flow regulated by Millerton Lake beginning in 1944, and by other upstream reservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.										
a Maximum flows since construction of Friant Dam in 1944.										

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C00200	JAMES BYPASS NEAR SAN JOAQUIN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN MAX. MIN. AC. FT.													MEAN MAX. MIN. AC. FT.

NO FLOW

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R N D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 39 06	120 10 45	SW 1 15S 16E	5600	12.22	6-7-69	APRIL 29-DATE					
Station located 0.1 mile downstream from Placer Avenue, 3.1 miles north of City of San Joaquin. James Bypass carries diverted flow from Kings River to San Joaquin River. Flow regulated by upstream reservoir, weir, and diversions. Altitude of gage is 165 feet (from U. S. Geological Survey topographic map). This station was established in 1929 and maintained until 1947 by Kings River Water Association. The U. S. Geological Survey maintained it and published the data until 1953. The U. S. Bureau of Reclamation has maintained the station from that time and records for the period 1953 through 1975 are available from their office in Sacramento. Records since 1969 have been published in the Bulletin No. 130 series of reports.											

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	895925	DELTA-MENDOTA CANAL NEAR TRACY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	4331		0	0	4497	4787	4161	4722	3318	4633	4588	4436	1
2	4450		0	0	4527	4777	4792	4717	3687	4644	4578	4040	2
3	4345		0	0	4506	4782	4752	4727	4046	4633	4568	3944	3
4	4344		0	0	4361	4750	4735	4705	4056	4635	4540	3970	4
5	4333		0	0	4485	4772	4751	4699	4083	4649	4583	3965	5
6	4357		0	0	4496	4764	4716	4704	4082	4678	4572	3968	6
7	4363		0	1071	4486	4472	4718	4628	4073	4634	4571	3968	7
8	4360		0	1684	4375	4111	4738	4759	4072	4638	4193	3979	8
9	4371		0	2309	4474	4116	4739	4764	4052	4670	4593	3965	9
10	4352		0	2723	4509	4113	4317	4764	4045	4639	4583	3978	10
11	4353		0	2637	4673	4116	3860	4739	4023	4641	4578	3974	11
12	4351		0	3202	4714	4086	3735	4757	4053	4637	4615	3975	12
13	4348	N	0	3209	4743	4127	3714	4288	4034	4635	4624	3974	13
14	4363	O	0	3236	4254	3681	3535	4140	4042	4641	4606	3958	14
15	4372		0	3192	3936	2625	3238	3582	4060	4633	4589	3979	15
16	4298	F	0	3252	3941	2461	3230	3387	4006	4626	4600	3981	16
17	3921	L	0	3400	3934	2452	3229	3356	4032	4632	4536	3971	17
18	3860	O	0	3486	3934	2455	3226	3367	4016	4584	4192	3967	18
19	3875	W	92	3486	3930	2946	3224	3372	4043	4583	4352	3861	19
20	3872		224	3475	3959	3377	3219	3367	4033	4533	4380	3760	20
21	3872		0	3482	3951	3372	3466	3338	3963	4524	4371	3748	21
22	3403		0	3483	3918	3372	4445	3377	3917	4529	4385	3755	22
23	2701		0	3509	3931	3887	4737	3375	3938	4581	4376	3764	23
24	2437		0	3492	3422	3364	4734	3336	4009	4602	4347	3730	24
25	2471		0	3952	3226	3398	4745	3360	3947	4522	4377	2810	25
26	1865		0	3948	3299	3383	4734	3346	4010	4613	4404	2394	26
27	1664		0	3943	4209	3383	4728	3366	3992	4618	4415	2397	27
28	1676		0	3944	4588	3373	4720	3371	4001	4602	4409	2302	28
29	1080		0	4129		3413	4727	3342	4005	4592	4422	2295	29
30	243		0	4489		4043	4729	3343	4245	4588	4487	2313	30
31	0		0	4568		4092		3333		4568	4458		31
MEAN	3435		10	2687	4195	3760	4213	3949	3996	4612	4490	3637	MEAN
MAX	4450		224	4568	4743	4787	4792	4764	4245	4678	4624	4436	MAX
MIN.	0		0	0	3228	2452	3219	3333	3318	4524	4193	2295	MIN.
AC FT.	211640		627	165228	232300	231177	250702	242842	237788	283595	276087	216442	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MINIMUM DISCHARGE	TOTAL ACRE FEET
3244	4792	0	2348428

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M		OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		ZERO ON GAGE	REF DATUM
				CFS	GAGE HT	DATE				FROM	TO		
37 47 49	121 35 03	SW31 1S 4E		4435		8-11-69	JUN 51-DATE			1951		0.00	USGS

Station located at Tracy Pumping Plant at intake to canal, 6 miles southeast of Byron, 10 miles northwest of Tracy. Discharge computed from records of operation of pumps. Water is diverted from Sacramento-San Joaquin Delta by way of Old River and a dredged channel to the Tracy Pumping Plant where it is lifted about 200 feet into canal. Records furnished by U. S. Bureau of Reclamation.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B00770	DELTA-MENDOTA CANAL TO MENDOTA POOL

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1809	531		0	1045	1263	1500	1991	2307	2583	2875	1806	1
2	1794	507		0	1062	1292	1638	2050	2460	2764	2826	1743	2
3	1778	495		0	1003	1434	1755	2086	2545	2730	2813	1679	3
4	1741	520		0	831	1646	1987	2086	2666	2615	2795	1672	4
5	1733	553		0	817	1579	2010	2079	2664	2574	2916	1710	5
6	1706	554		0	793	1245	2010	2053	2732	2439	2882	1832	6
7	1701	583		0	726	929	1674	2119	2748	2428	2883	1863	7
8	1578	567		0	686	887	1537	2192	2763	2620	2960	1687	8
9	1537	541		0	675	905	1436	2244	2789	2747	2978	1587	9
10	1542	516		1000	695	914	1451	2256	2907	2848	2994	1508	10
11	1561	462		1000	833	938	1493	2256	2880	2645	3033	1524	11
12	1561	445		1000	931	951	1493	2171	2798	2861	2949	1560	12
13	1560	455	N	549	827	930	1493	2201	2748	2876	2831	1451	13
14	1530	420	O	585	829	703	1489	2291	2704	2838	2898	1438	14
15	1326	225		515	688	552	1375	2435	2749	2820	2811	1441	15
16	1318	175	F	460	556	551	1369	2257	2789	2856	2751	1530	16
17	1278	150	L	456	525	561	1401	2234	2896	2847	2690	1619	17
18	1122	135	O	456	520	753	1367	2234	2875	2705	2530	1706	18
19	1190	100	W	508	664	796	1398	2237	2853	2659	2429	1645	19
20	1190	50		636	769	968	1399	2246	2711	2614	2329	1706	20
21	998	50		731	793	902	1557	1988	2629	2656	2398	1721	21
22	728	75		858	844	875	1660	1965	2629	2569	2400	1784	22
23	860	75		853	833	875	1792	1971	2616	2714	2425	1795	23
24	818	75		843	833	861	1896	2071	2450	2934	2425	1924	24
25	847	75		866	914	944	1979	2105	2482	2917	2409	1966	25
26	852	50		884	1235	912	2040	2137	2472	2917	2375	1918	26
27	851	50		915	1362	1035	2053	2279	2489	2938	2329	1896	27
28	795	25		961	1267	1023	1859	2305	2489	2992	2226	1895	28
29	655	0		1024	1048	1048	1736	2258	2490	3020	2132	1922	29
30	598	0		1032	1075	1075	1850	2233	2551	2877	2067	1915	30
31	595			971		1408		2248		2932	2002		31
MEAN	1809	583		1032	1362	1646	2053	2435	2907	3020	3033	1966	MEAN
MAX.	595	0		0	520	551	1367	1965	2307	2428	2002	1438	MAX.
MIN.	77728	16778		33924	46654	61003	98614	133446	158444	170055	161380	102037	MIN.
AC. FT.													AC. FT.

E - ESTIMATED
 NR - NO RECORD
 + - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
											1060063

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CF3	GAGE HT	DATE				FROM	TO	
36 47 11	120 23 05	NW19 13S 15E				JUL 51-DATE					
Station located approximately 2 miles north of Mendota, where Delta-Mendota Canal crosses the Outside Canal, which is 0.8 mile northwest of Bass Avenue crossing (check No. 21). Flow measured by three Sparling meters located at siphon outlet. Records furnished by U. S. Bureau of Reclamation.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1975	B07710	SAN JOAQUIN RIVER NEAR MENDOTA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	256	145	59	0	48	247	272	249	403	490	470	325	1
2	254	145	52	0	46	249	271	265	414	492	481	322	2
3	254	143	48	0	36	249	270	286	441	490	490	310	3
4	238	141	45	0	27	264	258	291	444	487	495	299	4
5	223	141	39	0	23	270	240	315	447	495	491	296	5
6	223	141	32	0	21	223	238	345	470	495	504	291	6
7	190	136	27	0	20	206	234	356	492	495	513	296	7
8	159	136	23	0	19	182	213	369	487	490	510	298	8
9	150	136	20	0	20	180	204	377	476	476	507	288	9
10	141	136	17	0	19	178	184	387	461	476	507	286	10
11	139	136	16	1	16	178	184	398	458	473	513	279	11
12	139	134	0	5	20	180	184	400	461	473	519	281	12
13	139	134	0	9	23	176	184	395	458	476	519	284	13
14	136	132	0	16	23	143	186	374	490	478	516	284	14
15	146	131	0	23	23	119	182	371	516	478	516	291	15
16	155	127	0	25	24	110	170	371	510	481	510	308	16
17	155	122	0	26	24	122	167	356	501	481	507	315	17
18	154	119	0	26	26	154	167	340	484	481	501	328	18
19	154	114	0	25	27	198	168	343	487	484	478	330	19
20	154	111	0	23	27	238	167	345	498	501	476	330	20
21	157	106	0	23	73	254	176	356	498	516	470	330	21
22	167	105	0	22	141	270	204	361	501	519	461	330	22
23	170	118	0	20	146	272	238	379	507	510	447	330	23
24	170	134	0	19	174	261	240	387	498	510	450	335	24
25	168	129	0	19	213	242	242	390	495	507	456	361	25
26	168	124	0	19	230	258	245	384	495	501	444	366	26
27	167	119	0	54	234	263	245	382	495	504	406	377	27
28	150	113	0	82	245	249	256	366	495	498	366	377	28
29	121	98	0	72	258	256	256	377	492	473	330	377	29
30	118	75	0	64	272	252	252	384	492	461	330	364	30
31	129		0	53	274		274	398		464	328		31
MEAN													MEAN
MAX.	256	145	59	82	245	274	272	400	516	519	519	377	MAX.
MIN.	118	75	0	0	16	110	167	249	403	461	328	279	MIN.
AC. FT.	10400	7500	750	1240	3900	13370	12890	22010	28500	30060	28780	19020	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT.	MO.	DAY	TIME	DISCHARGE	MINIMUM GAGE HT.	MO.	DAY	TIME	TOTAL AC. FT.
246	519	4.31	8	13	1900	0	12	12			178420

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT.	DATE				FROM	TO	
36 48 37	120 22 35	SW 7 13S 15E	11740a 8840	13.75	6-20-41 6- 1-52	OCT 39-DATE			1939 1954	1953	USBR USBR
Station located 2.5 miles downstream from Mendota Dam, 4 miles north of Mendota. Records furnished by U. S. Bureau of Reclamation. Drainage area is 3,943 square miles. This station is equipped with DWR radio telemeter. Flow regulated by upstream reservoirs. Summer flows consist mainly of Delta-Mendota Canal water regulated through Mendota Dam for downstream diversions.											
a Maximum discharge of record prior to the construction of Friant Dam in 1944.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1975	807610	SAN JOAQUIN RIVER NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	55	5	146	0	12	12	12	0	7	12	12	12	1
2	46	4	99	0	12	12	8	0	7	8	12	12	2
3	42	3	68	0	4	7	0	0	12	9	12	12	3
4	38	3	50	0	0	0	0	0	12	12	8	12	4
5	34	4	23	0	0	9	0	0	12	12	9	12	5
6	30	3	5	0	0	9	0	0	12	6	12	12	6
7	27	2	0	4	0	0	0	0	12	4	12	12	7
8	24	2	0	21	0	0	0	0	12	12	12	12	8
9	19	0	0	28	0	0	0	9	12	12	12	12	9
10	16	0	0	198	0	0	0	3	7	12	12	5	10
11		0	0	218	0	0	0	0	0	8	12	0	11
12	12	0	0	116	0	0	0	9	9	0	12	0	12
13	6	0	0	98	0	0	0	12	12	9	12	0	13
14	5	0	0	152	0	0	0	3	12	12	12	0	14
15	5	0	0	285	0	0	12	0	12	7	12	0	15
16	5	0	0	235	0	0	4	7	12	0	12	0	16
17	8	0	0	238	0	0	0	0	12	9	12	0	17
18	8	0	0	242	0	0	0	0	12	12	12	0	18
19	8	0	0	242	0	0	0	0	12	12	12	0	19
20	8	0	0	242	5	0	0	0	12	7	12	0	20
21	8	0	12	255	12	0	0	0	12	9	12	0	21
22	9	0	13	260	3	0	0	0	12	12	12	0	22
23	9	0	22	277	0	0	8	0	12	12	12	0	23
24	11	0	14	288	0	0	0	9	12	12	12	0	24
25	11	47	1	290	5	0	0	8	12	12	12	0	25
26	11	180	0	282	12	0	0	0	12	12	12	0	26
27	11	210	0	217	12	0	0	7	12	12	12	0	27
28	14	205	0	8	12	0	0	12	12	12	12	0	28
29	12	198	0	12	0	0	0	12	12	12	12	0	29
30	6	178	0	12	0	0	0	12	12	12	12	0	30
31	4		0	12		8		12		12	12		31
MEAN													MEAN
MAX.	55	210	146	290	12	12	12	12	12	12	12	12	MAX.
MIN.	4	0	0	0	177	113	121	228	650	600	700	224	MIN.
AC. FT.	1010	2070	900	8930									AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT	MO	DAY	TIME	DISCHARGE	MINIMUM GAGE HT	MO	DAY	TIME	TOTAL ACRE FEET
21.0	345	2.15	1	10	2000	0	11	9			15183

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC. T & R M.O.B. & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF	DATUM
			CFS	GAGE HT	DATE						
36 59 38	120 30 02	N 42 11 S 13 E	8920a 8200	10.52b	6-24-41 6- 5-52	OCT 40-DATE		1945	1944	116.5	USED
Station located 800 feet downstream from the head of Temple Slough, 6.5 miles east of Dos Palos. Records furnished by U. S. Bureau of Reclamation. Drainage area is approximately 4,672 square miles. Flow regulated by upstream reservoirs. Water diverted above station to Central California Irrigation District. a Maximum discharge of record prior to the construction of Friant Dam in 1944. b Gage height at site and datum then in use.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B67325	FRESNO RIVER, LEWIS FORD NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.1 *	17	13	27	24	62	79	118	119	57	16	6.3	1
2	3.4	14	13	25	46	60	73	122	117	59	7.5	6.2	2
3	7.1	11	65	15	32	58	74	138	146	67	6.8	5.2	3
4	4.5	11	126	15	37	57	71	151	143	65	6.7	5.0	4
5	4.4	10	50	17	31	96	61	120	143	63	6.8	4.7	5
6	3.7	10	32	50	32	143	76	108	125	60	6.7	3.8	6
7	4.2	11	28	49	36	143	71	107	139	56	8.2	3.6	7
8	5.2	13	25	77	39	150	72	121	137	52	6.0	4.1	8
9	4.9	12	23	45	193	117	72	135	138	50	7.5	4.7	9
10	4.6	12	21	34	143	100	79	142	136	49	6.8	5.1	10
11	4.6	11	21	30	80	90	77	145	128	47	6.9	5.1	11
12	4.1	11	21	25	61	85	76	149	118	44	6.8	4.5	12
13	3.6	12	20	27	98	81	61	150	116	42	6.9	4.5	13
14	3.2	11	19	27	85	74	104	150	116	41	6.8	4.5	14
15	3.7	11	19	26	59	72	108	153	114	38	6.8	4.4	15
16	3.6	12	20	25	52	80	93	167	114	31	6.8	4.3	16
17	4.3	13	19	24	45	67	84	168	113	30	7.5	4.8	17
18	4.3	13	18	24	43	64	79	169	113	29	8.2	4.4	18
19	2.6	13	18	25	43	67	77	166	111	28	10	3.0	19
20	3.0	13	18	24	56	67	80	157	108	26	11	3.0	20
21	3.2	21	18	24	46	69	95	140	101	25	11	3.0	21
22	3.3	28	18	24	41	87	100	138	87	24	6.4	2.8	22
23	3.7	16	13	23	40	72	99	136	84	23	5.1	2.5	23
24	4.0	14	20	23	41	75	115	141	83	22	5.2	2.8	24
25	4.3	14	27	23	42	335	178	144	81	21	5.4	2.9	25
26	5.1	13	23	23	45	159	113	138	80	20	5.4	2.9	26
27	4.7	13	17	22	49	110	101	136	79	19	5.5	2.8	27
28	4.3	12	21	17	55	90	103	132	65	18	5.4	3.0	28
29	11	12	18	21	62	108	124	124	61	18	6.1	3.3	29
30	11	13	18	20	82	113	120	120	58	19	6.1	3.3	30
31	14	17	17	18	88	116	116	116	18	18	5.9	3.0	31
MEAN	6.3	13.2	25.9	27.5	56.9	96.3	91.1	139	109	37.5	7.2	4.0	MEAN
MAX	43	28	128	77	193	335	178	169	146	67	16	6.3	MAX
MIN	2.1	10	13	15	24	57	71	107	58	18	5.1	2.5	MIN
AC. FT.	390	78	1591	1690	3162	5919	5419	8527	6492	2303	445	239	AC. FT.

E - ESTIMATED
NR - NO RECORD
+ - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
51.1	572	2.84	3	25	1000	1.6	0.90	10	1	1645	36960

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 20 44	119 38 20	SE 2 7S 21E	2000	5.00	2-1-63	SEP 61-DATE		1961		0.00	LOCAL
Station located 1.6 miles north of Oakhurst on Highway 41, 500 feet downstream from White Oaks Guest Home. Station located on left bank above concrete weir. Drainage area is 32.5 square miles. Altitude of gage is approximately 2,300 feet, from topographic map. Flow recorded at this station includes water diverted from South Fork Merced River drainage via Big Creek Diversion.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1975	B67300	MIAMI CREEK NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.9 *	4.3	2.2	2.7	7.0 E	12 E	18	23	14	5.7	3.6	2.4	1
2	1.2	3.2	2.2	2.7	15 E	10 E	17	23	13	5.7	3.7	2.3	2
3	1.6	2.7	1.6	2.8	11 E	11 E	17	25	13	5.6	3.6	2.2	3
4	1.5	2.4	2.5	3.0	15 E	12 #	16	28	12	5.5	3.4	2.1	4
5	1.4	2.3	8.9	3.0	11 E	23	17	23	11	5.4	3.4	2.0 *	5
6	1.3	2.3	5.5	7.9	10 E	46	16	21 *	10 *	5.6	3.3	1.9	6
7	1.2	2.2	4.4	9.3	12 E	40	15	21	10	5.8	3.3	1.9	7
8	1.3	2.3 *	3.8	17	15 E	41	14	24	9.6	5.6	3.2 *	1.8	8
9	1.4	2.4	3.5	8.2	65 E	30	15	26	9.3	5.4	3.0	2.2	9
10	1.4	2.3	3.2	6.7	55 E	25	16	27	8.9	5.4	2.8	2.2	10
11	1.4	2.2	3.1	5.8	14 E	22	17	28	8.6	5.2	2.8	2.2	11
12	1.3	2.0	3.1	5.2	6.0 E	21	18	29	8.3	5.0	2.8	2.1	12
13	1.2	1.9	3.0 *	5.0	24 E	20	20	30	8.1	4.9	2.7	1.9	13
14	1.2	1.8	2.9	4.8 E	26 E	18	23	30	8.6	4.9	2.7	1.8	14
15	1.1	1.9	2.8	4.6 E	9.0 E	17	22	30	7.6	4.8	2.7	1.7	15
16	1.1	1.8	2.8	4.4 E	6.0 E	19	19	29	7.3	4.7	2.7	1.6	16
17	1.0	1.8	2.7	4.3 E	5.0 E	16	18	28	7.6	4.6	2.6	1.7	17
18	1.0	1.9	2.7	4.3 E	4.0 E	16	17	28	7.8	4.8	2.6	1.7	18
19	1.0	1.9	2.6	4.4 E	4.0 E	17	17	28	7.9	4.6	3.4	1.6	19
20	1.0	2.0	2.6	4.3 E	7.0 E	17	19	26	7.9	4.5	3.8	1.5	20
21	1.0	3.3	2.6	4.3 E	5.0 E	17	21	22	7.7	4.5	4.5	1.5	21
22	1.0	10	2.7	4.3 E	4.0 E	19	21	20	7.3	4.3	3.6	1.4	22
23	1.1	4.1	2.6	4.3 E	5.0 E	17	21	20	7.0	4.1	3.1	1.4	23
24	1.1	3.2	2.6	4.3 E	8.0 E	19 *	23	28	7.1	3.9	2.8	1.4	24
25	1.2	2.8	2.5	4.3 E	11. E	118	34	32	7.4	3.8	2.7	1.4	25
26	1.2	2.6	2.6	4.5 E	14 E	43	24	19	6.9	3.8	2.5	1.3	26
27	1.4	2.4	2.6	4.3 E	15 E	30	21	18	6.7	3.8	2.5	1.3	27
28	9.5	2.3	3.5	4.0 E	15 E	24	21	17	6.4	3.6	2.5	1.3	28
29	4.7	2.3	3.0	3.8 E		20	22	16	6.2	3.6	2.5	1.3	29
30	3.0	2.2	2.9	3.7 E		19	23	15	6.0 *	3.7	2.5	1.2	30
31	3.5		2.6	3.6 E		20		15		3.7	2.9		31
MEAN	1.7	2.7	4.3	5.0 E	14 E	25.1	19.4	24.2	8.6	4.7	3.0	1.7	MEAN
MAX	9.5	10	25	17	65 E	118	34	32	14	5.8	4.5	2.4	MAX
MIN	0.9	1.8	2.2	2.7	4.0 E	10 E	14	15	6.0	3.6	2.5	1.2	MIN
AC. FT.	106	160	264	309 E	789 E	1545	1154	1486	514	291	187	104	AC FT

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN	DISCHARGE	MAXIMUM	DISCHARGE	MINIMUM	DISCHARGE	TOTAL
9.5	220	5.56	3	25	0900	6909

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
37 23 38	119 39 10	SE22 6S 21E	804	9.08	2-1-63	DEC 59-DATE			1959		0.00 LOCAL

Station located 150 feet downstream from bridge, 4.5 miles north of Oakhurst. Tributary to Fresno River. Stage-discharge relationship at times affected by ice. Drainage area is 10.6 square miles. Recorder installed December 15, 1959. Altitude of gage is approximately 3,500 feet (from topographic map).

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B67285	MIAMI CREEK AT HIGHWAY 49 NEAR AHWAIHNEE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	1.4	5.0	8.9	14	14	41	39	18	3.6	0.8	0.3	1
2	0.0	1.2	8.7	9.5	31	12	34	38	18	3.4	0.8	0.3	2
3	0.0	1.0	23	9.6	22	13	34	44	17	2.6	1.0	0.4	3
4	0.0	1.2	40	10	31	17	34	62	16	2.3	1.0	0.3	4
5	0.0	1.5	15	9.8	23	50	80	43	14	1.1	0.7	0.2	5
6	0.0	1.6	7.8	19	21	186	92	38	13	0.7	0.9	0.2	6
7	0.0	2.0	5.6	22	23	175	56	35	13	1.2	0.6	0.2	7
8	0.0	2.0	5.4	35	30	194	48	37	13	1.4	0.5	0.4	8
9	0.1	2.4	5.9	21	146	111	42	40	13	1.7	0.2	0.3	9
10	0.1	2.2	5.3	12	109	87	43	41	13	2.3	0.2	0.2	10
11	0.0	2.4	4.8	9.8	28	72	41	42	11	2.0	0.5	0.3	11
12	0.0	2.4	4.2	8.2	12	73	40	43	8.7	1.9	0.9	0.4	12
13	0.0	2.2	3.9	7.6	48	66	43	43	7.4	1.7	0.9	0.5	13
14	0.0	2.7	3.8	7.3	52	63	60	43	6.1	1.9	0.9	0.5	14
15	0.0	2.8	4.2	7.2	17	46	101	43	6.5	1.7	1.0	0.4	15
16	0.1	2.9	4.4	7.2	11	68	72	42	6.6	1.9	1.0	0.3	16
17	0.6	2.9	4.9	7.8	7.0	45	57	41	8.0	1.6	1.1	0.3	17
18	0.1	2.5	5.2	8.0	5.9	36	49	39	5.7	1.3	1.2	0.3	18
19	0.1	2.4	5.4	7.9	6.1	36	45	39	5.7	1.3	1.6	0.3	19
20	0.1	2.4	5.5	8.2	15	34	44	38	5.3	1.3	1.7	0.2	20
21	0.0	3.2	5.9	8.2	8.0	39	45	31	5.5	1.6	1.8	0.2	21
22	0.1	6.2	6.3	8.2	6.2	126	43	29	4.9	1.3	1.4	0.3	22
23	0.2	3.2	6.3	8.3	10	53	39	30	6.5	1.0	0.7	0.3	23
24	0.2	3.1	6.3	9.0	16	50	42	29	6.5	0.9	0.6	0.3	24
25	0.3	3.5	6.6	9.1	22	339	93	29	6.7	1.1	0.6	0.1	25
26	0.4	4.3	6.9	8.9	26	247	55	28	6.6	1.2	0.6	0.1	26
27	0.7	4.7	6.9	9.2	30	117	42	26	8.0	1.1	0.4	0.1	27
28	4.5	5.3	10	9.3	31	77	40	25	9.2	0.9	0.4	0.1	28
29	0.8	6.3	8.9	9.3		59	40	23	9.4	0.8	0.4	0.0	29
30	0.1	7.5	9.0	9.3		51	40	21	6.1	0.6	0.4	0.0	30
31	1.0		8.7	9.3		49		20		0.7	0.3		31
MEAN	0.3	3.0	8.2	10.8	28.7	54.0	51.8	36.2	9.6	1.6	0.8	0.3	MEAN
MAX.	4.5	7.5	40	35	146	339	101	62	18	3.6	1.8	0.5	MAX.
MIN.	0.0	1.0	3.8	7.2	5.9	12	34	20	4.9	0.6	0.2	0.0	MIN.
AC. FT.	1.9	1.77	502	663	1593	5167	3084	2223	572	95	50	15	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
— E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM	GAGE HT	MO	DAY	TIME	DISCHARGE	MINIMUM	GAGE HT	MO	DAY	TIME	TOTAL
19.6	477	7.28	3	25	1000		0.0	2.32	10	1	0000		14160

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE				
LATITUDE	LONGITUDE	14 SEC T & R M D B & M		OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
				CFS	GAGE HT	DATE			FROM	TO			
37 20 50	119 43 00	SW 6	7S 21E	913E	8.24	1-16-70	OCT 69-DATE			1969		0.00	LOCAL
Station located 4.0 miles west of Oakhurst on State Highway 49. Recorder installed on the downstream side of bridge. Tributary to Fresno River. Drainage area 31.6 square miles. Recorder installed 10-15-69. Altitude of gage is approximately 2030 feet (from topographic map).													

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B06725	FRESNO RIVER EIGHT MILES WEST OF MADERA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	0.0	0.0	0.0	45	71	16				1
2			0.0	0.0	0.0	0.0	40	71	26				2
3			0.0	0.0	53	0.0	32	62	0.0				3
4			0.0	0.0	164	0.0	27	53	2.0				4
5			0.0	0.0	119	0.0	25	47	3.0				5
6			0.0	0.0	85	0.0	115	36	5.0				6
7			8.4	0.0	38	205	205	26	0.0				7
8			48	0.0	36	138	106	0.0	3.0				8
9			7.4	0.0	268	480	126	0.0	2.0				9
10			5.0	68	272	240	122	0.0	0.0				10
11			3.6	68	153	200	145	0.0	0.0				11
12			1.0	27	50	188	110	0.0	0.0				12
13	N	N	0.0	3.6	199	155	100	0.0	2.0	N	N	N	13
14	O	O	0.0	1.7	217	183	91	0.0	1.0	O	O	O	14
15			0.0	7.0	130	279	164	0.0	0.0				15
16	F	F	0.0	8.4	75	190	263	0.0	5.0	F	F	F	16
17	L	L	0.0	6.0	52	267	213	0.0	3.0	L	L	L	17
18	O	O	0.0	4.5	25	183	183	0.0	2.0	O	O	O	18
19	W	W	0.0	4.5	10	125	158	21	2.0	W	W	W	19
20			0.0	8.4	5.0	125	135	42	5.0				20
21			0.0	8.4	20	115	109	10	6.0				21
22			0.0	7.4	0.0	115	105	14	5.0				22
23			0.0	6.7	0.0	510	95	10	2.0				23
24			0.0	5.3	0.0	205	73	7.2	0.0				24
25			0.0	0.0	0.0	172	78	7.2	0.0				25
26			0.0	0.0	0.0	872	150	0.0	0.0				26
27			0.0	0.0	0.0	229	164	0.0	0.0				27
28			0.0	0.0	0.0	169	101	0.0	0.0				28
29			0.0	0.0	0.0	75	101	4.0	0.0				29
30			0.0	0.0	0.0	60	71	2.0	0.0				30
31			0.0	0.0	0.0	60	71	4.0	0.0				31
MEAN			2.4	7.6	70	181	117	16	3.2				MEAN
MAX.			48	68	272	872	263	71	26				MAX.
MIN.			0.0	0.0	0.0	0.0	25	0.0	0.0				MIN.
AC. FT.			144	467	3908	11160	6969	966	188				AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
32.9	1116	3.72	3	26	1600	0		10	1		23802

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD				DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M O B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	FROM	TO	
			CFS	GAGE HT	DATE								
36 58 30	120 12 12	NE15 11S 16E				1936-SEP 40 OCT 41-SEP 42 JUL 44-DATE					1936		0.00 LOCAL
Station located left bank 100 feet downstream from County Road 19 bridge. Equipped with Stevens Type F recorder. Station records natural runoff as well as Central Valley Project water. Records furnished by Madera Irrigation District.													

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B64300	CHOWCHILLA RIVER, WEST FORK NEAR MARIPOSA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0 *	0.2	0.8	1.9	28	19	46	33	7.7	2.2			1
2	0.0	0.5	0.8	1.8	551	17	41	31 *	7.2	2.2			2
3	0.0	0.5	22	1.8	163	17	41 *	33	7.2	2.1			3
4	0.0	0.4	59 *	1.8	308	17 *	40	38	6.9	2.0			4
5	0.0	0.4	9.6	1.7	118 *	47	103	31	6.3 *	2.0			5
6	0.0	0.4	4.0	8.1	52	145	97	30	5.8	1.8			6
7	0.0	0.4	2.8	11	41	189	84	29	5.3	1.6	*		7
8	0.0	0.5 *	2.2	84	41	149	92	27	5.1	1.5			8
9	0.0	0.5	1.9	32 *	470	78	93	25	4.6	1.4			9
10	0.0	0.6	1.7	15	501	71	83	25	4.3	1.2			10
11	0.0	0.6	1.6	9.7	106	60	76	24	4.0 *	1.1			11
12	0.0	0.6	1.5	7.2	60	57	67	23	3.8	1.0			12
13	0.0	0.5	1.5	6.1	132	68	60	22	3.7	0.9	N	N	13
14	0.0	0.5	1.4	5.4	94 *	64	78	21	3.3	0.9	O	O	14
15	0.0	0.5	1.4	4.9	53	64	137	20	3.1	0.9			15
16	0.0	0.6	1.4	4.5	42	109	106	21	2.9	1.2	F	F	16
17	0.0	0.6	1.3	4.1	35	74	82	20	2.9	1.3	L	L	17
18	0.0	0.6	1.3	4.0	31	58	66	18	3.1	1.2	O	O	18
19	0.0	0.6	1.2	3.7	30	51	62	17	3.2	1.0	W *	W	19
20	0.0	0.7	1.2	3.7	42	46	55	17	3.1	0.9			20
21	0.0	1.8	1.2	3.5	32	56	52	16	3.1	0.8			21
22	0.0	5.9	1.3	3.3	27	285	47	15	3.0	0.7			22
23	0.0	2.1	1.2	3.2	25	63	43	14	2.6 *	0.6			23
24	0.0	1.4	1.1	3.1	24	67	45	14	2.8	0.6			24
25	0.0	1.1	1.1	3.1	23	296 *	53	12	3.1	0.5			25
26	0.0	1.0	1.1	3.1	21	132	43	12	3.0	0.4			26
27	0.0	0.9	1.2	3.1	20	90	39	11	2.9	0.2			27
28	0.2	0.9	3.3	2.9	20	71	36	10	2.6	0.1			28
29	0.3	0.8	2.4	2.9		62	35 *	9.5	2.4	0.0			29
30	0.1	0.8	1.8	3.0		56	34	8.8	2.2 *	0.0			30
31	0.2		1.8	2.9		53		8.1		0.0			31
MEAN	0.0	0.9	4.4	8.0	110	86.2	64.7	20.5	4.1	1.0			MEAN
MAX	0.3	5.9	59	84	551	296	137	38	7.7	2.2			MAX
MIN	0.0	0.2	0.8	1.7	20	17	34	8.1	2.2	0.0			MIN.
AC FT	2	54	270	489	6129	5298	3848	1260	241	64			AC FT

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT	MO	DAY	TIME	DISCHARGE	MINIMUM GAGE HT	MO	DAY	TIME	TOTAL ACRE FEET
24.4	1170	6.53	2	9	0530	0.0	1.35	10	1	0000	17650

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC T & R M D S & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
37 25 14	119 52 25	SE10 6S 19E	4350E	8.93	1-25-69	NOV 57-DATE		1957	0.00	LOCAL	

Station located 15 feet downstream from Indian Peak Road Bridge, 6.7 miles southeast of Mariposa. Drainage area is 33.6 square miles. Altitude of gage is 1,680 feet (from topographic map). There are no upstream impairments.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	800435	EASTSIDE BYPASS NEAR EL NIDO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0.0 *	0.0	0.0	52 *	7.0 *				8.0	1
2				0.0	0.0	0.0	24	0.6				0.0 *	2
3				0.0	0.0	0.0	8.0	2.1	*			0.0	3
4				0.0	26	0.0 *	0.6	1.8				0.0	4
5				0.0	142	0.0	0.6	0.0				0.0	5
6				0.0	539 *	0.0	0.3	0.0				0.0	6
7				0.0	280	0.0	44	0.0				0.0	7
8				0.0	104	0.0	323	0.0				0.0	8
9				0.0	48	328	300	0.0				0.0	9
10				0.0	182	581	204	0.0				0.0	10
11				0.0	1010	336	136	0.0				0.0	11
12				0.0	976	282	110	0.0				0.0	12
13	N	N	N	0.0	443	224 *	88	0.0	N	N	N	0.0	13
14	O	O	O	0.0	240	214	54	0.0	O	O	O	0.0	14
15				0.0	396 *	224	42	0.0 *				0.0	15
16	F	F	F	0.0	443	280	45 *	0.0	F	F	F	0.0	16
17	L	L	L	0.0	270	260	122	0.0	L	L	L	0.0	17
18	O	O	O	0.0	165 *	298 *	163	0.0	O	O	O	0.0	18
19	W	W	W	0.0	78	276	112	0.0	W	W	W	0.0	19
20				0.0 *	49	140	77	0.0				0.0	20
21				0.0	24	74	54	0.0				0.0	21
22				0.0	16	49	33	0.0				0.0	22
23				7.5	5.8	226	22	5.8				0.0	23
24				5.8	14	546	20	0.0				0.0	24
25				2.7	2.4	300	3.0	0.0				0.0	25
26				0.0	0.0	306 *	0.0	0.0				0.0	26
27				0.0	0.0	934	0.0	0.0				0.0	27
28				0.0	0.0	684	12	0.0				0.0	28
29				0.0		308	20	0.0				0.0	29
30				0.0		57	114	0.0				0.0	30
31				0.0		77		0.0				0.0	31
MEAN				0.5	195	226	69	0.6				0.3	MEAN
MAX.				7.5	1010	934	323	7.0				8.0	MAX.
MIN.				0.0	0.0	0.0	0.0	0.0				0.0	MIN.
AC. FT.				32	10820	13900	4133	34				16	AC. FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND *

MEAN
DISCHARGE
40

MAXIMUM				
DISCHARGE	GAGE HT	MO	DAY	TIME
1340	12.14	2	11	2200

MINIMUM				
DISCHARGE	GAGE HT	MO	DAY	TIME
0	5.14	10	1	0015

TOTAL
ACRE FEET
28930

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M O B & M	DF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM TO	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
37 08 52	120 36 17	SE13 9S 12E	21700	17.58	2-25-69	DEC 64-DATE		1964		90.00	USGS

Station located on left bank 2.8 miles below Washington Road and 6.4 miles west of El Nido. This station is equipped with a radio telemeter. Flows regulated above station. Station records flows from San Joaquin, Fresno, Chowchilla Rivers and Kings River water via James Bypass.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B62400	MARIPOSA CREEK NEAR CATHEYS VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		3.9	1.0	3.7	84	26	69	37	7.6	1.8			1
2		3.5	0.8	3.2	1550	24	61	36	7.2	1.8			2
3		2.1	100	2.8	594	22 *	56 *	34	7.1	1.8			3
4		1.5	254	2.7	626	22	53	39	6.8	1.8			4
5		1.3	44	2.4	315	40	188	33	6.3 *	1.8			5
6		1.2	18	26	140 *	164	231	30	5.6	1.6			6
7		1.2 *	11	46	97	376	185	29	5.2	1.4			7
8		1.5	8.2	271	78	316	179	28	5.0	1.2			8
9		1.6	6.7	105 *	516	148	172	26	4.3	1.1			9
10		1.6	6.1	44	738	147	150	25	3.8	1.0			10
11		1.5	5.7	26	199	126	117	24	3.5 *	0.8			11
12		1.5	5.3	19	120	101	98	23	3.3	0.7			12
13	N	1.3	5.1	15	364	117	84	21	3.2	0.7	N	N	13
14	O	1.4	5.0	13	262 *	135	84	20 *	2.9	0.6	O	O	14
15		1.5	5.0	11	139	126	148	19	2.7	0.7			15
16	F	1.5	5.1 *	9.5	102	259	136	19	2.6	0.9	F	F	16
17	L	1.6	4.7	8.3	79	185	115	18	2.6	1.1	L	L	17
18	O	1.6	4.3	7.8	64	137	96	17	2.9	1.0	O	O	18
19	W	1.7	4.1	7.1	57	111	83	16	3.1	0.9	W	W	19
20		1.6	3.8	6.5	77	93	74	16	3.3	0.8			20
21		3.9	3.6	6.0	58	88	68	16	3.2	0.7			21
22		17	3.5	5.6	47	612	62	15	3.0	0.6			22
23		6.3	3.1	5.3	43	183	55	14	2.7 *	0.6			23
24		3.5	2.8	5.1	39	139	49	13	2.8	0.5			24
25		2.5	2.7	4.9	36	502 *	53	13	3.2	0.5			25
26		1.9	2.6	4.8	32	235	53	12	2.9	0.4			26
27		1.6	2.7	4.6	30	159	46	11	2.5	0.3			27
28		1.4	11	4.3	28	126	42	10	2.3	0.3			28
29		1.2	7.7	4.4		104	39 *	9.5	2.0	0.3			29
30		1.0	5.0	4.3		90	38	8.7	1.9 *	0.2			30
31			4.4	4.3		81		8.1		0.2			31
MEAN		2.5	17.7	22.1	233	162	96.1	20.7	3.9	0.9			MEAN
MAX.		17	254	271	1550	612	231	39	7.6	1.8			MAX.
MIN.		1.0	0.8	2.4	28	22	38	8.1	1.9	0.2			MIN.
AC. FT.		149	1085	1356	12920	9949	5720	1270	229	56			AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
— E AND *

MEAN	DISCHARGE	MAXIMUM	DISCHARGE	MINIMUM	TOTAL
45	2320	GAGE HT 8.46 MO 2 DAY 1345	0	GAGE HT 2.08 MO 10 DAY 0015	ACRE FEET 32730

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT	DATE						
37 23 55	120 00 10	NE21 6S 18E	7460E	11.63	2-24-69	NOV 57-DATE		1957		0.00	LOCAL

Station located at county road bridge, 5.6 miles east of Catheys Valley School. Tributary to San Joaquin River via Eastside Bypass. Drainage area is 65.7 square miles. Maximum discharge of record from rating curve extended above 4,705 cfs. Altitude of gage is 1,230 feet (from topographic map). There are no upstream impairments.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B62100	MARIPOSA CREEK BELOW MARIPOSA RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	7.2	2.7	9.2	47	28	3.1	2.1			1
2			0.0	7.0	584	8.0	39	28	2.9	1.6			2
3			0.0	8.8	765	7.4	33	27	2.8	1.7			3
4			75	8.8	717	7.4	30	29	2.7	1.7			4
5			134	8.8	723	7.8	80	34	2.5	1.7			5
6			26	8.8	645	50	37	30	2.3	1.5			6
7			20	23	490	128	33	29	2.2	1.5			7
8			12	113	207	400	218	30	2.0	1.3			8
9			9.2	214	188	302	204	30	2.0	1.0			9
10			7.6	70	544	161	182	31	1.8	0.6			10
11			7.0	31	536	149	128	30	2.1	0.0			11
12			6.6	21	342	94	94	29	2.5	0.0			12
13	N	N	6.6	17	322	78	72	29	2.4	0.0	N	N	13
14	O	O	6.0	14	420	161	56	28	2.5	0.0	O	O	14
15			6.0	14	338	137	100	28	2.5	0.0			15
16	F	F	5.8	12	143	188	134	26	2.5	0.0	F	F	16
17	L	L	5.8	12	70	274	119	25	2.6	0.0	L	L	17
18	O	O	5.6	11	44	188	90	23	2.5	0.0	O	O	18
19	W	W	5.4	10	38	146	68	21	2.6	0.0	W	W	19
20			5.4	9.2	38	84	54	18	2.4	0.0			20
21			5.4	5.4	36	62	47	16	2.4	0.0			21
22			5.4	2.9	24	367	43	14	2.3	0.0			22
23			5.2	2.7	19	4.4	38	13	2.4	0.0			23
24			5.2	2.6	15	256	34	11	2.4	0.0			24
25			5.2	2.6	14	279	35	8.4	2.4	0.0			25
26			5.4	2.6	12	445	38	7.2	2.4	0.0			26
27			5.4	2.5	11	306	35	6.4	2.4	0.0			27
28			5.4	2.5	10	170	31	5.4	2.3	0.0			28
29			6.8	2.5		102	30	4.8	2.2	0.0			29
30			9.6	2.4		78	28	3.8	2.2	0.0			30
31			7.6	2.3		62		3.4		0.0			31
MEAN			13	21	261	166	73	21	2.4	0.5			MEAN
MAX			134	214	765	445	218	34	3.1	2.1			MAX
MIN			0.0	2.3	2.7	4.4	28	3.4	1.8	0.0			MIN
AC FT.			814	1290	14470	10200	4320	1280	143	30			AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	DISCHARGE	MAXIMUM	GAGE HT	MO	DAY	TIME	DISCHARGE	MINIMUM	GAGE HT	MO	DAY	TIME	TOTAL
44.9	765			2	3	Daily Mean	0						32550

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE				FROM	TO		
37 16 52	120 09 45	NE 36 7S 16E	6020		12-24-55	NOV 52-DATE			1952		337.63	USCGS
Station located 1.5 miles downstream from Mariposa Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Mariposa Reservoir since 1948. Records furnished by U. S. Corps of Engineers. Drainage area is 110 square miles.												

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

TABLE B-5 (Cont.)													
DAILY MEAN DISCHARGE				OWENS CREEK BELOW OWENS RESERVOIR									
(IN CUBIC FEET PER SECOND)													
WATER YEAR		STATION NO.		STATION NAME									
1975		B06170											
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0		1.0	2.0	3.0	6.0	11	4.5	1.0	0.5	0.1	0.5	1
2	0.0	1.0	1.0	2.0	NR	5.4	10	4.5	1.0	0.5	0.0	0.5	2
3	0.0	10.5	2.0	NR	4.6	9.0	4.5	1.0	0.5	0.0	0.5	0.5	3
4	0.0	0.5	16	1.0	NR	4.8	9.3	3.6	1.0	0.5	0.0	0.5	4
5	0.0	0.5	7.2	2.0	128	8.1	26	3.6	1.0	0.5	0.0	0.5	5
6	0.0	0.5	3.0	2.0	124	24	42	3.6	1.0	0.5	0.0	0.3	6
7	0.1	0.5	2.0	3.9	110	22	53	3.3	1.0	0.5	0.0	0.2	7
8	0.3	0.5	2.0	7.2	89	39	28	3.3	0.5	0.4	0.0	0.3	8
9	0.5	0.5	2.0	6.3	69	13	22	3.0	0.5	0.4	0.1	0.5	9
10	0.5	0.5	2.0	4.2	91	24	15	3.0	0.5	0.4	0.2	0.5	10
11	0.5	0.5	2.0	3.0	79	18	12	3.0	0.5	0.3	0.2	0.5	11
12	0.5	0.5	2.0	3.0	25	12	11	3.0	0.5	0.3	0.3	0.5	12
13	0.5	0.5	2.0	2.0	41	25	10	3.0	0.5	0.4	0.5	0.5	13
14	0.5	0.5	2.0	2.0	73	35	9.9	3.0	0.5	0.4	0.5	0.5	14
15	0.5	0.5	2.0	2.0	26	18	12	3.0	0.5	0.3	0.5	0.5	15
16	0.5	0.5	2.0	2.0	19	50	14	3.0	0.5	0.5	0.5	0.5	16
17	0.5	1.0	2.0	2.0	15	25	11	2.0	0.5	0.5	0.5	0.5	17
18	0.5	1.0	2.0	2.0	12	19	9.0	2.0	0.5	0.4	0.5	0.5	18
19	0.5	1.0	2.0	2.0	9.6	15	7.8	2.0	0.5	0.3	0.5	0.4	19
20	0.5	1.0	2.0	2.0	12	104	7.2	2.0	0.5	0.3	0.5	0.5	20
21	0.5	1.0	2.0	2.0	10	99	7.2	2.0	0.5	0.3	0.5	0.5 E	21
22	0.5	4.2	2.0	2.0	9.0	92	6.6	2.0	0.5	0.3	0.5	0.5 E	22
23	0.5	3.0	1.0	2.0	8.1	88	6.0	2.0	0.5	0.2	0.5	0.5 E	23
24	0.5	2.0	1.0	2.0	7.5	31	6.0	2.0	0.5	0.0	0.5	0.5 E	24
25	0.5	1.0	1.0	2.0	7.5	63	6.3	2.0	0.5	0.0	0.5	0.5 E	25
26	0.5	1.0	1.0	2.0	6.9	71	8.1	2.0	0.5	0.0	0.5	0.5 E	26
27	1.0	1.0	2.0	2.0	6.3	28	6.6	2.0	0.5	0.0	0.5	0.5 E	27
28	1.0	1.0	2.0	2.0	6.0	22	5.7	1.0	0.5	0.0	0.5	0.5 E	28
29	1.0	1.0	2.0	2.0		17	4.6	1.0	0.5	0.0	0.5	0.5 E	29
30	0.5	1.0	2.0	2.0		15	4.5	1.0	0.5	0.0	0.5	0.5 E	30
31	1.0		2.0	2.0		14		1.0		0.2	0.5		31
MEAN	0.4	1.0	2.7	2.4	NR	33	13	2.6	0.6	0.3	0.3	0.5	MEAN
MAX.	1.0	4.2	16	7.2	NR	104	53	4.5	1.0	0.5	0.5	0.5	MAX.
MIN.	0.0	0.5	1.0	1.0	NR	4.8	4.5	1.0	0.5	0.0	0.0	0.2	MIN.
AC. FT.	30	60	170	150	NR	2010	770	160	40	20	20	30	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN		MAXIMUM				MINIMUM				TOTAL	
DISCHARGE		DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME
NR		NR					0				

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CFS	GAGE HT	DATE				FROM	TO	
37 18 28	120 11 35	SW 23 7S 16E	590		12-24-55	FEB 50-DATE			1950		338.22 USCGS
Station located 0.25 mile downstream from Owens Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Owens Reservoir since 1949. Records furnished by U. S. Corps of Engineers. Drainage area is 25.6 square miles.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B05570	BEAR CREEK BELOW BEAR RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	5.0	118	22	48	35	1.8	0.2			1
2			0.0	4.4	1048	20	41	34	1.7	0.4			2
3			0.0	4.1	862	19	38	33	1.9	0.6			3
4			113	3.8	660	14	25	33	1.8	0.5			4
5			80	3.8	435	17	56	33	2.0	0.5			5
6			27	4.4	148	58	97	33	1.5	0.4			6
7			14	24	104	82	230	32	2.4	0.3			7
8			11	221	88	319	188	31	1.3	0.3			8
9			7.8	139	308	121	139	30	1.1	0.3			9
10			7.0	58	566	88	98	28	0.9	0.2			10
11			6.2	32	191	123	80	27	0.8	0.2			11
12			5.4	21	105	78	68	26	0.7	0.2			12
13			4.4	17	252	72	57	25	0.7	0.2			13
14	N	N	4.1	13	365	127	51	24	0.6	0.2	N	N	14
15	O	O	4.1	11	135	129	54	21	0.5	0.2	O	O	15
16	F	F	4.1	9.0	96	227	66	21	0.4	0.2	F	F	16
17	L	L	3.8	7.8	76	185	60	19	0.3	0.1	L	L	17
18	O	O	3.8	7.4	57	109	50	17	0.3	0.0	O	O	18
19	W	W	3.5	6.6	50	81	44	15	0.3	0.0	W	W	19
20			3.5	6.6	70	74	41	13	0.3	0.0			20
21			3.5	6.2	68	56	40	13	0.3	0.0			21
22			3.5	5.8	51	524	39	11	0.3	0.0			22
23			3.5	5.4	44	182	38	10	0.3	0.0			23
24			3.5	5.0	35	111	38	8.6	0.4	0.0			24
25			3.5	5.0	32	451	40	7.8	0.4	0.0			25
26			3.5	4.7	29	308	50	6.2	0.3	0.0			26
27			3.5	4.7	27	139	41	5.0	0.2	0.0			27
28			3.8	4.7	24	100	39	4.4	0.2	0.0			28
29			4.1	4.4		86	37	3.5	0.2	0.0			29
30			4.1	4.4		74	37	2.6	0.2	0.0			30
31			4.4	4.1		58		2.0		0.0			31
MEAN			11	21	216	131	65	20	0.8	0.2			MEAN
MAX.			113	221	1048	524	230	35	2.4	0.6			MAX
MIN.			0	3.8	24	14	35	2.0	0.2	0.0			MIN
AC. FT.			680	1300	11990	8040	3850	1200	48	10			AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT.	MO	DAY	TIME	MINIMUM DISCHARGE	GAGE HT.	MO	DAY	TIME	TOTAL ACRE FEET
37.4	1120					0					27120

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD		DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.				FRDM	TO		
37 21 27	120 14 05	NE 5 7S 16E	4460		12-24-55	JAN 55-DATE			1955	320.50	USCGS
Station located approximately 0.75 mile downstream from Bear Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 72.1 square miles.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B05525	BEAR CREEK AT MCKEE ROAD NEAR MERCED

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	100	316	50	57	56	69	214	180	218	142	164	126	1
2	150	240	51	56	1799	65	206	172	128	134	146	144	2
3	158	70	72	56	3494	61	192	140	184	124	126	124	3
4	150	240	150	56	1840	58	198	162	162	138	122	83	4
5	96	64	240	55	1672	61	230	156	132	160	98	100	5
6	120	55	124	56	654	101	506	124	144	146	108	92	6
7	104	53	90	56	420	218	452	118	155	126	112	89	7
8	120	53	76	80	372	369	375	114	132	118	107	98	8
9	120	53	69	612	665	295	342	122	130	120	130	120	9
10	126	52	65	182	937	208	268	172	128	124	140	136	10
11	89	52	62	118	657	252	236	200	132	138	132	146	11
12	83	52	57	90	342	198	218	186	118	164	118	166	12
13	60	52	57	79	503	233	202	196	122	168	132	182	13
14	78	52	56	66	1102	604	178	196	154	166	114	202	14
15	70	52	55	61	485	368	168	182	182	160	120	162	15
16	47	51	55	58	305	480	202	182	170	168	134	156	16
17	45	51	55	57	226	495	172	186	154	158	107	164	17
18	43	51	55	56	184	395	148	208	146	164	108	162	18
19	43	50	54	55	162	440	166	206	110	172	144	182	19
20	42	50	53	54	138	164	168	196	130	182	164	164	20
21	41	52	53	54	160	138	136	190	118	158	160	162	21
22	40	54	53	54	132	1376	128	180	140	128	164	166	22
23	38	52	53	58	110	658	150	152	164	136	152	164	23
24	38	51	52	60	96	416	144	122	164	130	164	158	24
25	28	50	52	59	84	820	192	160	160	144	146	164	25
26	64	50	52	58	83	673	216	156	154	120	126	138	26
27	61	50	55	57	76	308	198	152	162	134	66	195	27
28	66	50	59	56	73	240	188	130	160	122	80	142	28
29	69	50	61	55	198	178	178	152	170	120	79	102	29
30	52	50	60	55	190	172	130	152	140	140	88	95	30
31	190		58	53		196		182		140	96		31
MEAN	82	72	69	83	601	334	218	165	152	143	125	143	MEAN
MAX.	190	318	240	612	3494	1376	506	208	218	182	164	202	MAX.
MIN.	28	50	50	53	56	58	128	114	110	118	79	83	MIN.
AC. FT.	5060	4300	4270	5120	33390	20528	12980	10120	9060	8810	7670	8500	AC. FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR

OBSERVATION OF NO FLOW

- E AND *

MEAN DISCHARGE	DISCHARGE	GAUGE HT	MO	DAY	TIME	DISCHARGE	GAUGE HT	MO	DAY	TIME	TOTAL ACRES FEET
179.3	4320					28					129820

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAUGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAUGE HT	DATE			FROM	TO	
37 18 34	120 26 38	SW21 7S 14E	5,542	17.35	2-11-73	NOV 56-DATE		1956		75.00 ASSUMED

Station located 50 feet downstream from McKee Road Bridge, one mile east of Merced, Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear and Burns Reservoirs. Records furnished by the U. S. Corps of Engineers. Altitude of gage is 189 feet (from topographic map). Drainage area is 190 square miles. In December 1955, prior to installation of this station, a gage height of 22.9 feet was taken from a high water mark and the discharge was estimated as 9,500 cfs. Station installed in 1956; however, prior to 1969 records were not requested for publication by Department of Water Resources. Prior records available at U. S. Corps of Engineers office, Sacramento.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B05518	BEAR CREEK AT MERCED IRRIGATION DISTRICT WEST BOUNDARY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	88	269	17	15	13	74	174	206	218	92	70	92	1
2	123	231	19	14	244	75	279	204	254	92	91	96	2
3	180	169	54	14	638	70	281	177	235	105	94	92	3
4	140	133	209	14	708	68	309	177	209	79	83	87	4
5	116	NR	239	13	694	70	339	164	148	119	83	96	5
6	88	NR	137	13	560	147	500	119	91	126	64	66	6
7	70	NR	63	15	350	202	502	75	111	107	74	58	7
8	44	NR	37	19	264	306	434	86	128	86	87	75	8
9	70	NR	26	201	328	400	411	81	126	65	110	142	9
10	81	NR	24	177	621	254	449	56	101	72	110	178	10
11	101	NR	22	80	586	251	339	86	106	74	110	216	11
12	164	NR	20	46	311	256	264	102	97	59	128	209	12
13	56	16	18	35	254	189	283	113	103	101	133	183	13
14	42	16	17	29	674	524	219	147	106	101	110	226	14
15	38	15	16	19	514	482	204	153	107	130	106	199	15
16	23	13	16	17	263	378	254	151	109	155	134	128	16
17	17	12	16	16	163	631	244	152	97	155	119	133	17
18	14	11	16	15	204	383	236	191	79	124	124	156	18
19	14	11	15	14	171	269	244	234	83	112	191	159	19
20	12	11	15	14	151	206	246	186	92	137	241	139	20
21	10	12	14	13	159	169	226	203	104	121	210	185	21
22	10	15	14	13	150	244	155	228	86	101	173	191	22
23	11	12	15	13	124	514	209	211	125	85	156	185	23
24	10	11	14	13	110	536	190	176	137	57	211	175	24
25	16	10	14	14	102	422	258	187	137	67	146	156	25
26	14	10	14	14	97	800	308	221	114	64	117	162	26
27	20	11	14	13	91	455	295	184	102	64	38	161	27
28	28	13	16	13	84	284	323	212	68	67	46	206	28
29	53	14	18	10	229	301	244	210	93	62	72	146	29
30	36	16	18	10	202	244	207	207	99	40	74	90	30
31	66		16	10	142		208	208	56	107			31
MEAN	57	34	38	30	308	297	291	165	122	93	117	146	MEAN
MAX	180	269	239	201	708	800	502	234	254	155	241	226	MAX
MIN	10	10	14	10	13	68	155	56	68	40	38	58	MIN
AC FT	3481	2045	2311	1817	17114	18242	17316	10138	7270	5703	7164	8702	AC FT

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND *

MEAN
DISCHARGE
140

MAXIMUM
DISCHARGE
800 E
GAGE HT
9.07 E
MO
3
DAY
26
TIME
0600

MINIMUM
DISCHARGE
10
GAGE HT
0.66
MO
10
DAY
25
TIME
0300

TOTAL
ACRE FEET
101300

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD	ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
37 15 21	120 39 06	NE 9 8S 12E				1930-					
Station located 400 feet downstream from Crane Road Bridge, 6.6 miles southwest of Atwater.											
Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear and Burns Reservoirs.											
Records furnished by Merced Irrigation District. Altitude of gage is 108 feet (from U. S. Geological Survey topographic map). Monthly runoff records dating back to 1947 are published in Bulletin No. 130-69.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B56100	BURNS CREEK BELOW BURNS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	0.0	0.4	12	24	7.0					1
2			0.0	0.0	51	10	20	6.7					2
3			22	0.0	1163	8.5	17	6.7					3
4			22	0.0	587	8.5	16	6.1					4
5			2.8	0.0	308	14	51	4.6					5
6			0.7	0.0	142	91	184	3.4					6
7			0.2	0.0	116	39	92	3.2					7
8			0.0	4.3	108	119	50	2.8					8
9			0.0	59	282	44	43	2.6					9
10			0.0	17	243	54	28	2.2					10
11			0.0	14	126	76	23	1.7					11
12			0.0	4.9	84	37	20	1.4					12
13	N	N	0.0	3.0	210	96	16	1.4	N	N	N	N	13
14	O	O	0.0	1.7	348	240	14	1.3	O	O	O	O	14
15			0.0	1.5	116	114	14	1.0					15
16	F	F	0.0	1.3	76	222	14	0.8	F	F	F	F	16
17	L	L	0.0	1.0	58	114	14	0.8	L	L	L	L	17
18	O	O	0.0	1.0	43	74	12	0.8	O	O	O	O	18
19	W	W	0.0	0.8	34	52	10	0.7	W	W	W	W	19
20			0.0	0.8	39	40	8.5	0.5					20
21			0.0	0.7	39	32	8.0	0.3					21
22			0.0	0.7	27	580	7.5	0.2					22
23			0.0	0.6	22	160	7.0	0.0					23
24			0.0	0.6	18	94	7.0	0.0					24
25			0.0	0.5	17	301	7.0	0.0					25
26			0.0	0.5	15	152	9.0	0.0					26
27			0.0	0.5	14	94	12	0.0					27
28			0.0	0.4	12	58	9.0	0.0					28
29			0.0	0.4		43	7.5	0.0					29
30			0.0	0.3		36	7.0	0.0					30
31			0.0	0.2		30		0.0					31
MEAN			1.5	3.7	154	98	25	1.8					MEAN
MAX.			22	59	1163	580	184	7.0					MAX.
MIN.			0.0	0.4	8.5	7.0	0.9						MIN.
AC. FT			95	230	8520	6040	1490	111					AC. FT

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE
22.8

MAXIMUM				
DISCHARGE	GAGE HT	MO	DAY	TIME
1356				

MINIMUM				
DISCHARGE	GAGE HT	MO	DAY	TIME
0				

TOTAL ACRE FEET
16490

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 22 27	120 16 35	NR 36 6S 15E	2590		12-24-55	APR 50-DATE		1950		260.60	USCGS
Station located 0.5 mile downstream from Burns Dam. Tributary to San Joaquin River via Bear Creek. Flow regulated by Burns Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 73.8 square miles.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	143	71	44	43	56	139	447	147	142	51	38	129	1
2	123	200	44	41	117	156	325	135	134	49	36	130	2
3	164	210	65	41	615	147	297	133	137	44	32	141	3
4	208	185	198	42	2480	131	302	116	106	45	34	167	4
5	175	159	360	42	2610	112	357	114	87	41	35	156	5
6	151	89	369	42	2730	154	400	116	63	44	41	132	6
7	125	63	261	42	2480	186	519	82	49	50	43	90	7
8	106	42	193	44	1950	275	591	67	50	53	44	81	8
9	90	58	146	55	1520	499	830	66	50	54	44	84	9
10	92	51	88	186	1310	663	972	62	51	52	48	119	10
11	90	58	72	238	1490	955	838	59	53	50	51	148	11
12	90	53	67	198	2150	850	620	60	59	49	56	190	12
13	95	45	66	151	2090	706	478	61	53	47	55	215	13
14	73	54	66	118	1730	697	400	59	49	41	53	238	14
15	72	59	59	98	1790	946	252	63	48	43	64	267	15
16	68	57	57	85	1700	884	224	66	51	52	79	266	16
17	59	55	69	77	1330	966	240	88	49	87	104	234	17
18	46	53	69	71	974	1060	301	95	57	89	98	221	18
19	40	52	65	66	721	951	355	113	51	75	71	202	19
20	42	50	61	78	533	644	331	131	49	63	150	194	20
21	43	49	61	87	420	659	320	108	45	71	218	186	21
22	40	49	50	82	352	546	276	110	42	66	234	186	22
23	37	50	55	87	240	918	190	115	42	57	230	184	23
24	38	41	47	88	167	1490	157	115	41	45	244	185	24
25	41	46	43	85	144	1570	156	137	39	39	253	188	25
26	43	47	42	81	96	1360	265	161	41	35	213	196	26
27	40	45	40	79	102	1580	266	147	39	33	152	178	27
28	47	46	38	75	119	1800	258	103	57	33	119	183	28
29	53	46	42	63		1450	270	106	52	33	112	214	29
30	56	45	44	51		968	241	89	40	34	112	162	30
31	52		46	51		667		119		36	123		31
MEAN	82	71.6	94.4	83.5	1151	745	383	101	60.9	50.4	103	176	MEAN
MAX.	208	210	369	238	2730	1800	972	161	142	89	253	267	MAX.
MIN.	37	41	38	41	56	112	156	59	39	33	32	81	MIN.
AC. FT.	5042	4260	5806	5131	63940	48260	22770	6238	3622	3096	6319	10450	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	GAGE HT	ACRE FEET
255	2800	70.34 2 6 0515	36 60.49 10 23 1415

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R N D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 17 42	120 50 00	26 7S 10E	26740	76.23	2-26-69	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS
Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flows regulated by upstream reservoirs and diversions. Drainage area is 7,388 square miles.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B00975	PANOCHÉ DRAIN NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	26	35	19	17	49	70	70 *	50	70	56 *	72 *	39	1
2	26 *	32	20	16 *	82	67	61	52	70	56	55	36 *	2
3	27	25	29	16	95	66	68	48	65 *	59	59	44	3
4	25	23	33	18	75	73 *	66	49	69	66	61	42	4
5	22	22	22	18	63	78	71	48	72	66	57	38	5
6	25	25	21	19	44	89	64	51	71	72	54	46	6
7	24	23 *	22	20	53	91	56	55	66	71	64	45	7
8	23	29	22 *	19	44	89	55	58	65	66	66	40	8
9	27	29	21	17	49	86	51	54	68	64	58	47	9
10	29	26	20	21	48	67	50	55	65	67	58	47	10
11	30	30	21	25	32	85	56	66	65	67	60	42	11
12	32	28	21	28	36	85	44	67	63	62	55	39	12
13	37	34 E	20	32	63	83	44	54	69	65	51	39	13
14	33	34 E	19	31	62	85	53	66	60	70	56 *	37	14
15	35	35 E	19	29	57	79	56	69 *	61	73	56	33	15
16	28 *	29	19	25	57	73	65 *	70	59	72 *	58	37 *	16
17	27	23	20	30	51	66	53	66	63 *	70	52	37	17
18	28	24	19	33	48 *	71 *	50	73	72	60	50	38	18
19	30	24 *	15	41	50	64	50	78	76	64	56	35	19
20	28	28	18	43 *	53	57	49	73	74	63	56	32	20
21	25	31	17	40	58	52	54	83	77	68	55	29	21
22	23	28	17	37	60	65	51	88	80	63	51	25	22
23	22	25	18	33	70	70	55	88	82	63	52	25	23
24	24	24	17	38	69	73	64	72	89	64	49	24	24
25	26	23	18	46	72	73	63	67	93	56	53	30	25
26	31	21	18	47	69	72	69	62	96	54	51	29	26
27	37	21	18 *	51	72	73	62	56	96	53	52	26	27
28	39	20	20	51	72	76	63	60	82	60	49	26	28
29	34	19	18	50		66	54	66	60	66	49	27	29
30	32	20	17	50		65	51	69	58	63	48	24	30
31	30		17	42		72		73		68	47		31
MEAN	28.5	26.3	19.9	31.7	59.0	74.3	57.4	64.1	71.9	64.1	55.2	35.3	MEAN
MAX.	39	35	33	51	95	91	71	88	96	73	72	47	MAX.
MIN.	22	19	17	16	32	52	44	48	58	53	47	24	MIN.
AC. FT.	1755	1567	1226	1950	3279	4567	3418	3939	4280	3941	3390	2100	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
— E AND *

MEAN DISCHARGE
48.9

MAXIMUM GAGE HT	MO	DAY	TIME
119	7.20	2	3 0100

DISCHARGE	MINIMUM GAGE HT	MO	DAY	TIME
14	1.86	1	2	

TOTAL ACRES FEET
35410

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CF5	GAGENT	DATE						
36 55 25	120 41 19	NW 5 12S 12E	69. a	9.19	11-24-65	FEB 59-SEP 62	OCT 62-JUL 63	1959	-2.00	LOCAL	
			89. a	9.25	2-13-73	OCT 64-SEP 68					
			119	7.20	2-03-75	APR 69-DATE					
Station located midway between Outside and Main Canals 0.5 mile south of Main Canal levee road, 5.6 miles southwest of Dos Palos. This is drainage returned to San Joaquin River. Station is operated under a cooperative agreement between the Department of Water Resources and the Panoche Drainage District. Altitude of gage is approximately 140 feet (from U. S. Geological Survey topographic map).											
a In April 1969, the gage height-discharge relationship was changed by removing the control boards from the entrance to the culvert increasing its capacity.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B00470	SALT SLOUGH NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	143	165	97	83	104	190	332	169	63	146	66	226	1
2	154	144	77	82	142	196	293	154	72	142	90	230	2
3	156	132	94	78	186	202	265	129	74	131	99	204	3
4	132	131	135	58	229	206	265	124	81	130	113	162	4
5	118	133	146	61	250	212	281	141	64	138	139	155	5
6	102	132	143	61	249	226	326	136	68	135	127	157	6
7	93	137	139	64	243	305	360	110	80	142	121	148	7
8	92	147	133	64	224	342	399	105	82	136	119	131	8
9	99	141	133	56	200	329	435	103	80	106	125	139	9
10	92	144	141	54	186	331	432	107	85	105	107	155	10
11	76	144	156	54	180	331	410	120	98	99	115	150	11
12	63	135	158	51	185	338	377	131	81	85	127	148	12
13	68	137	160	57	219	326	345	149	82	104	106	134	13
14	85	150	162	62	239	325	330	133	76	130	110	138	14
15	79	151	160	64	233	352	286	138	63	118	118	133	15
16	59	148	157	62	233	362	250	141	89	136	135	133	16
17	53	146	147	63	221	359	250	138	123	168	136	95	17
18	57	148	116	59	214	362	245	141	92	163	168	89	18
19	56	172	113	62	207	357	231	144	87	140	254	114	19
20	65	169	105	71	191	349	214	132	95	132	327	129	20
21	73	141	97	92	187	332	202	112	112	139	314	130	21
22	72	143	93	101	186	332	187	129	145	147	291	134	22
23	72	143	91	97	193	346	169	136	160	159	293	129	23
24	69	146	103	105	206	369	137	124	136	142	304	104	24
25	80	148	105	100	187	401	161	113	132	112	309	88	25
26	87	147	103	98	159	395	169	115	133	89	302	99	26
27	96	140	102	93	156	378	184	122	146	108	267	99	27
28	104	128	101	106	177	400	184	126	142	110	268	122	28
29	105	125	89	110	401	155	96	151	87	87	240	148	29
30	108	108	82	101	362	139	83	142	74	250	161	30	30
31	130		83	95	340		65		72	247			31
MEAN	91.6	143	120	76.3	200	324	267	125	101	123	187	139	MEAN
MAX	156	172	162	110	250	401	435	169	160	166	325	230	MAX
MIN.	53	108	77	51	104	190	137	65	63	72	66	88	MIN
AC. FT.	5629	8479	7384	4689	11080	19950	15890	7672	6018	7587	11470	8299	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT	MO	DAY	TIME	DISCHARGE	MINIMUM GAGE HT	MO	DAY	TIME	TOTAL ACRES FEET
158	445	67.77	4	9	2300	49	64.18	1	12	0030	114200

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT DAILY	PERIOD	ZERO ON GAGE	REF DATUM		
			CFS	GAGE HT	DATE							
37 14 52	120 51 04	SE10 8S 10E	537	70.35a 69.62	6-10-69 2-14-73	MAR 68-DATE		1968		0.00	USCGS	

Station located at Lander Avenue bridge, 5.5 miles south of Stevinson. This includes drainage being returned to San Joaquin River. Drainage area is 227 square miles.

a This maximum gage height of record was affected by backwater and does not represent the maximum discharge.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B52580	BEAN CREEK NEAR COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.1	0.3	0.4	0.7	14	2.3	9.4	5.6	2.1	1.0	0.7	0.3	1
2	0.3	0.3	0.4	0.7	116	2.1	8.3	5.2	2.3	1.0	0.6	0.3	2
3	0.3	0.3	5.0	0.7	47	2.1	8.1	5.1	1.8	1.0	0.6	0.3	3
4	0.4	0.3	9.8	0.7	47	2.1	8.1	5.4	1.8	1.0	0.6	0.3	4
5	0.3	0.3	2.4	0.7	33	4.3	15	5.1	1.7	0.9	0.5	0.3	5
6	0.4	0.3	0.7	3.4	19	8.1	13	4.8	1.7	0.9	0.6	0.2	6
7	0.3	0.3	0.7	5.2	12	32	12	4.6	1.5	0.9	0.6	0.2	7
8	0.4	0.3	0.7	26	13	41	13	4.5	1.5	0.8	0.6	0.2	8
9	0.4	0.3	0.7	21	80	23	18	4.3	1.6	0.8	0.5	0.3	9
10	0.4	0.3	0.6	9.9	75	18	20	4.0	1.5	0.8	0.5	0.3	10
11	0.4	0.3	0.6	3.2	25	15	16	3.9	1.4	0.8	0.5	0.3	11
12	0.5	0.3	0.6	2.6	18	12	13	3.7	1.5	0.8	0.5	0.2	12
13	0.5	0.3	0.6	2.4	16	12	11	3.7	1.5	0.8	0.5	0.3	13
14	0.5	0.3	0.6	2.1	22	14	10	3.5	1.3	0.8	0.5	0.3	14
15	0.5	0.3	0.7	1.4	17	14	12	3.4	1.4	0.8	0.5	0.3	15
16	0.5	0.3	0.6	1.3	14	22	13	3.5	1.4	0.8	0.4	0.3	16
17	0.5	0.3	0.6	1.2	9.0	20	12	3.6	1.4	0.8	0.4	0.3	17
18	0.5	0.3	0.6	1.2	7.4	17	10	3.2	1.3	0.8	0.5	0.2	18
19	0.6	0.3	0.6	1.1	6.8	14	9.1	3.2	1.3	0.8	0.6	0.2	19
20	0.6	0.3	0.6	1.0	8.0	13	8.5	3.3	1.4	0.8	0.5	0.2	20
21	0.3	0.6	0.6	1.0	6.6	16	8.3	3.2	1.3	0.8	0.5	0.2	21
22	0.1	0.5	0.7	5.4	6.8	59	7.8	3.2	1.2	0.7	0.4	0.2	22
23	0.2	0.4	0.7	4.3	6.3	26	7.5	2.9	1.3	0.7	0.4	0.2	23
24	0.2	0.4	0.6	0.8	6.1	21	11	3.0	1.4	0.7	0.4	0.1	24
25	0.2	0.4	0.6	0.8	5.7	148	18	2.7	1.3	0.7	0.4	0.2	25
26	0.2	0.3	0.6	0.8	5.6	42	11	2.6	1.2	0.7	0.4	0.2	26
27	0.2	0.3	0.7	0.7	17	25	8.3	2.7	1.2	0.7	0.4	0.1	27
28	0.6	0.3	0.9	0.7	15	18	7.3	2.6	1.1	0.7	0.4	0.1	28
29	0.4	0.3	0.7	0.7	15	15	6.5	2.5	1.1	0.7	0.4	0.1	29
30	0.3	0.4	0.7	0.7	13	13	6.0	2.1	1.1	0.7	0.4	0.2	30
31	0.4	0.7	0.7	0.7	11	11	2.3	2.3	0.7	0.7	0.4	0.2	31
MEAN	0.4	0.3	1.1	3.3	23.9	22.0	11.0	3.7	1.5	0.8	0.5	0.2	MEAN
MAX.	0.6	0.6	9.8	26	116	148	20	5.6	2.3	1.0	0.7	0.3	MAX.
MIN.	0.1	0.3	0.4	0.7	5.6	2.1	6.0	2.1	1.1	0.7	0.4	0.1	MIN.
AC FT	23	20	69	204	1326	1353	657	225	86	49	30	14	AC FT

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN	MAXIMUM						MINIMUM						TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME		DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET	
5.60	362	5.22	3	25	0600		0.1	1.15	10	1	1830	4056	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
37 44 29	120 07 00	SE20 2S 17E	1090	8.13	1-21-69	DEC 65-DATE			1965		LOCAL

Station located on right bank 0.8 mile east of Greeley Hill and 4.8 miles northeast of Coulterville. Maximum discharge of record from rating curve extended above 758 cfs. There are no upstream impairments. Drainage area is 7.4 square miles.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B51250	MAXWELL CREEK AT COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.8	0.7	1.5	4.9	4.3	12	8.7	1.4	0.5	0.2	0.1 E	1
2	0.1	0.6	0.7	1.5	4.21	3.7	11	7.9 *	1.3	0.5	0.3	0.1 E	2
3	0.1	0.5	8.3	1.3	109	3.5 *	11	7.6	1.3	0.5	0.2	0.1 E	3
4	0.2 *	0.5	13 *	1.4	153	3.2	10	7.5	1.2	0.5	0.1	0.1 *	4
5	0.2	0.5	4.2	1.3	57	5.4	22	6.8	1.1 *	0.5	0.1	0.1	5
6	0.2	0.5	2.5	5.9	29 *	29	32	6.1	1.0	0.5	0.1	0.1	6
7	0.2	0.6 *	1.9	8.0	21	94	35	5.8	1.0	0.5	0.1 *	0.1	7
8	0.2	0.7	1.7	75 *	16	85	34	5.6	1.0	0.5	0.1 E	0.1	8
9	0.2	0.6	1.5	13	118	38	39	5.3	0.9	0.4	0.1 E	0.1	9
10	0.2	0.6	1.4	6.1	99	25	32	4.9	0.9	0.4	0.1 E	0.1	10
11	0.2	0.6	1.3	4.4	31	18	23	4.7	0.8	0.3	0.1 E	0.1	11
12	0.2	0.6	1.3	3.5	18	13	19	4.5	0.8	0.3	0.1 E	0.1	12
13	0.2	0.6	1.3	3.1	48	12	16	4.3	0.7	0.3	0.1 E	0.1	13
14	0.2	0.5	1.2	2.8	37	16	14	3.8	0.6	0.3	0.1 E	0.1	14
15	0.2	0.5	1.2	2.7	21	19	15	3.7	0.6	0.6	0.1 E	0.1	15
16	0.2	0.5	1.2	2.5	15	57	16	3.6	0.6	0.7	0.1 E	0.1	16
17	0.2	0.6	1.2	2.3	11	37	16	3.4	0.6	0.5	0.1 E	0.1	17
18	0.2	0.6	1.1	2.2	9.3	22	14	3.2	0.7	0.4	0.1 E	0.1	18
19	0.2	0.6	1.1	2.0	9.2	14	13	3.2	0.7	0.3	0.1 E	0.1	19
20	0.2	0.6	1.1	1.9	19	9.9	12	3.2	0.7	0.2	0.1 E	0.1	20
21	0.3	1.8	1.1	1.8	12	20	11	3.0	0.7	0.3	0.1 E	0.1	21
22	0.3	2.5	1.2	1.8	9.5	105	9.7	2.8	0.6	0.3	0.1 E	0.1	22
23	0.3	1.4	1.1	1.8	8.3	28	8.8	2.5	0.6	0.1	0.1 E	0.1	23
24	0.3	1.1	1.1	1.8	7.2	17	11	2.4	0.7	0.1	0.1 E	0.1	24
25	0.2	1.0	1.1	1.8	6.4	198 *	15	2.1	0.6	0.1	0.1 E	0.1	25
26	0.3	0.9	1.1	1.8	5.7	55	13	2.0	0.6	0.1	0.1 E	0.1	26
27	0.3	0.8	1.3	1.9	5.0	28	11	1.9	0.5	0.4	0.1 E	0.1	27
28	1.5	0.7	2.9	1.8	4.6	19	10	1.8	0.5	0.4	0.1 E	0.1	28
29	0.9	0.7	2.0	1.8		15	9.5 *	1.7	0.5	0.3	0.1 E	0.1	29
30	0.6	0.7	1.8	1.8		14	8.9	1.6	0.4 *	0.5	0.1 E	0.1	30
31	1.2		1.6	1.9		13		1.5		0.5	0.1 E		31
MEAN	0.3	0.8	2.1	5.2	48.2	32.9	16.8	4.1	0.8	0.4	0.1	0.1	MEAN
MAX.	1.5	2.5	13	75	421	198	39	8.7	1.4	0.7	0.3	0.1	MAX.
MIN.	0.0	0.5	0.7	1.3	4.6	3.2	8.8	1.5	0.4	0.1	0.1	0.1	MIN.
AC FT	19	46	127	322	2676	2025	999	252	47	23	7 E	6	AC FT

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM	DAY	TIME	DISCHARGE	MINIMUM	DAY	TIME	TOTAL ACRE FEET
9.05	925	5.32	2	0400	0.0	2.26	10	1545	6551

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
37 42 58	120 11 20	SE34 2S 16E	1770E	5.71	12-23-64	DEC 58-DATE		1958		0.00	LOCAL

Station located on downstream side of Dogtown Road Bridge, 0.5 mile northeast of Coulterville. Tributary to Merced River. Drainage area is 17.0 square miles. Maximum discharge of record from rating curve extended above 902 cfs. Altitude of gage is 1,740 feet (from U. S. Geological Survey topographic map). There are no upstream impairments.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B07375	SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	320	206	154	142	193	393	667	386	245	196	132	397	1
2	290	296	141	138	242	435	680	345	250	201	135	389	2
3	303	344	153	137	503	420	584	326	265	191	153	393	3
4	336	326	278	124	1640	396	555	298	243	187	156	396	4
5	313	306	449	115	2120	385	610	299	216	191	159	366	5
6	271	265	525	116	2270	420	667	306	166	198	169	336	6
7	236	213	474	118	2270	489	791	268	172	200	173	304	7
8	203	220	391	121	2100	629	893	237	174	209	178	270	8
9	191	215	334	122	1820	779	1040	216	170	191	190	265	9
10	187	202	279	184	1600	958	1230	221	171	171	193	311	10
11	185	206	255	277	1570	1200	1220	222	183	167	176	342	11
12	173	204	252	274	1870	1230	1050	227	207	147	195	371	12
13	180	190	252	237	2050	1130	880	251	257	147	201	380	13
14	174	202	255	210	1930	1030	788	244	272	166	187	398	14
15	165	218	250	193	1860	1190	633	243	236	175	204	421	15
16	151	219	240	177	1860	1260	532	248	267	179	214	443	16
17	124	215	242	169	1670	1250	499	272	322	226	226	403	17
18	101	212	227	159	1400	1360	536	277	261	261	245	358	18
19	97	219	205	152	1140	1300	599	296	192	244	286	348	19
20	95	230	192	166	931	1220	599	310	161	211	393	358	20
21	111	212	184	198	784	1070	561	287	166	206	499	360	21
22	118	202	172	220	684	921	538	270	182	216	513	364	22
23	112	202	163	221	588	1020	446	296	193	227	508	357	23
24	107	193	160	232	505	1440	373	302	196	215	511	350	24
25	112	197	161	235	462	1650	365	295	176	182	520	328	25
26	121	196	158	226	378	1570	439	304	161	159	531	318	26
27	134	194	156	220	346	1600	498	318	162	156	494	319	27
28	146	182	156	216	370	1750	493	296	192	164	430	308	28
29	157	177	151	223	370	1700	489	280	198	151	403	355	29
30	167	170	146	204	115	1410	447	242	201	143	377	371	30
31	172		146	189		1110		224		142	380		31
MEAN	179	221	236	184	1256	1055	664	278	212	188	295	356	MEAN
MAX.	336	344	525	277	2270	1750	1230	386	322	261	531	443	MAX.
MIN.	95	170	141	115	193	385	365	216	161	142	132	265	MIN.
AC. FT.	11020	13160	14480	11340	69780	64890	39520	17070	12590	11540	18110	21180	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	DISCHARGE	MAXIMUM	GAGE HT	MO	DAY	TIME	DISCHARGE	MINIMUM	GAGE HT	MO	DAY	TIME	TOTAL
421	2290	62.63	2	6	1530	84	54.75	10	19	1930			304700

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 18 35	120 55 45		9180a	68.05	2-26-69	MAR 37-DATE		1944	1957	-3.73	USCGS
								1957	1959	-3.77	USCGS
								1959		0.00	USCGS
Station located 30 feet below Fremont Ford Bridge, 4.5 miles west of Stevenson, 6.7 miles upstream from the Merced River. Drainage area is approximately 8,090 square miles. Flow records were published in U. S. Geological Survey report "Surface Water Records of California" prior to 1972.											
a During periods of high flow some water bypasses the station through three overflow channels known as North, Middle, and South Mud Sloughs.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B05170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	125	533	613	432	369	462	1030 *	174 *	743	152	138	291	1
2	126 *	537	612	431	761	460	671	157	723	121	151	338	2
3	126	527	667 *	439 *	523 *	465 *	717	196	584	125 *	146	477 *	3
4	124	577 *	650	439	543	468	575	189	902	123	152	538	4
5	129	633	637	435	623	507	596	211	877	128	176	544	5
6	135	643	634	441	881	506	504	253	1150	138	166	511	6
7	146	646	632	430	958	523	536	231	2010	142	134	476	7
8	182	642	632	465	945	521	927	202	2040	163	140	474	8
9	761	641	633	439	1020	481	1140	180	2570 *	166	152	487	9
10	904	637	602	430	1180	500	994	175	3570	161	133	490	10
11	813	631	565	427	1700	483	877	174	4390	163	153	536	11
12	732	630	568	432	2020	471	873	339	4320	154	131	600	12
13	431	644	559	430	2190	568	860	529	4010	167	142	640	13
14	150	645	558	431	1970	518	836	716	4170	185	134	651	14
15	159	644	557	430	1530	477	796	760	4800	194	130 *	688	15
16	151	625	524	425	1520	508	701	756	4620	206	132	716	16
17	153	627	464	422	1270	474	747	747	3150	124	134	706	17
18	145	642	441	421	880	463	861	751	1720	128	152	686	18
19	141	635	430	428	695	459	824	753	923	125	162	689	19
20	144	632	425	423	675	456	803	754	750	124	176	687	20
21	142	641	429	423	680	470	751	779	825	124	169	701	21
22	133	646	427	422	604	639	546	932	850	127	156	732	22
23	135	647	422	419	682	469	415	864	840 *	121	152	763	23
24	135	647	421	401	674	686	366	851	819	119	174	790	24
25	190	647	425	408	687	1310	275	829	781	122	167	802	25
26	506	628	426	411	608	1670	221	836	766	118	171	791	26
27	529	632	430	418	487	1600	216	829	491	112	162	827	27
28	536	623	437	420	486	1670	211	834	243	116	168	910	28
29	516	639	435	416	1670	209	815	200	116	196	196	947	29
30	702	623	434	403	1690	195	765	253	113	225	968	30	30
31	550		435	350	1450		745		113	253			31
MEAN	318	625	520	424	973	757	654	557	1513	139	160	648	MEAN
MAX.	904	648	667	465	2190	1870	1140	884	4800	206	253	968	MAX.
MIN.	124	527	421	350	369	456	195	174	200	112	130	291	MIN.
AC. FT.	19540	37180	31980	26070	54050	46520	38910	34270	107900	8539	9860	38580	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
626	4940	12.35	6	16	0130	25	5.37	7	1	1615	453400

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
37 30 06	120 27 03	NE17 5S 14E	14500	17.10	1-7-65	NOV 58-DATE			1958	221.12	USGS

Station located 0.2 mile downstream from Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by upstream reservoirs and dams. Drainage area is 1,096 square miles. Prior to November 1958, records available for a site 3.6 miles downstream. Merced Irrigation District Main Canal and several small gravity diversions are upstream from station.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1975	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	214	610 E	659	505	457	529	1340	291 *	734	291	130 *	305	1
2	212	590 E	663 *	502	1350	519	980	283	730	217	138	324	2
3	221	600 E	723	505 *	1610	505 *	917	291	734	193 *	159	338 *	3
4	229	591 *	773	509	772	512	674	294	688 *	181	175	505	4
5	234	652	711	505	1200	532	663	294	652	181	175	522	5
6	234	678	689	505	872	549	689	313	800	177	200	532	6
7	234	678	681	509	1040 *	570	616	319	1470	172	193	509	7
8	239	685	681	505	1070	946	780	288	1980	170	170	505	8
9	282	674	678	536	1430	869	1190	288	2030	181	172	519	9
10	766	667	681	519	1470	602	1230	272	2900	186	186	509	10
11	930	659	630	499	1590	667	984	267	3750	181	170	515 *	11
12	800	656	616	496	2100	577	950	267	4130	188	172	580	12
13	757	652	619	496	2330	560	950	431	3760	184	166	627	13
14	404	656	609	489	2920	1040	950	612	3540	186	170	689	14
15	259	652	605	489	2070	670	909	726 *	3850	190	168	704	15
16	241	646	602	482	1740	609	860	757	4120	200 *	172	761	16
17	231	630	556	476	1710	670	840	757	3440	219	179	753	17
18	231	627	522	469	1230	567	872 *	773	2100 *	166	195	734	18
19	224	634 *	502	469	905	542	921	780	1180	159	231	734	19
20	226	634	489	473 *	812	536 *	868	773	768	155	249	757	20
21	229	641	489	466	773 *	536	656	788	719	157	246	757	21
22	226	648	489	469	757	995	765	828	776	159	226	800	22
23	221	659	482	466	742	761	549	880	800 *	166	207	836	23
24	224	667	479	469	726	602	502	917	776	144	224	860	24
25	221	667	479	463	704	934	450 E	860	738	142	221	901	25
26	272	659	479 *	469	719	1940	370 E	864	704	140	231	925	26
27	482 E	652	482	473	564	1890	340 E	864	652	140	212	892	27
28	523 E	663	496	479	539	1800	310 E	840	373	134	202	972	28
29	530 E	659	496	479		1780	310 E	824	310	114	212	1040	29
30	542 E	678	496	479		1800	290 E	796	288	134	231	1031	30
31	720 E		499	457		1780		749		132	270		31
MEAN	366	649	562	487	1222	884	764	590	1664	172	195	681	MEAN
MAX	930	685	73	536	2920	1940	1340	917	4130	291	270	1040	MAX.
MIN.	212	590 E	479	457	457	505	290	267	288	114	130	305	MIN.
AC FT.	22530	8610	35810	29960	67880	54330	45470	36270	99000	10590	12000	40530	AC FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
681	4211	18.80	6	12	1900	95.9	10.57	7	29		493000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC. T & R M D S & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67 32.67a	12-4-50 12-4-50	JUL 41-DATE	APR 41-JUL 41	1950	1962	96.24 86.23	USCGS USCGS
Station located 150 feet downstream from McSwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream from bridge. Flows regulated by upstream reservoirs and diversions. Drainage area is 1,224 square miles.											
a Reflects present datum.											

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B00525	MUSTANG CREEK NEAR BALICO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.1	0.0	0.0	0.0	0.0	0.4 *	0.0 *	0.0	0.0	0.0 *	0.8	1
2	0.0 *	0.0	0.0 *	0.0	0.8	0.0	0.2	0.4	0.1	0.0	0.0	0.0	2
3	0.0	0.0	0.4	0.0 *	0.9 *	0.0 *	0.1	0.3	0.0	0.0 *	0.0	0.0 *	3
4	0.0	0.0 *	1.3	0.0	0.6	0.0	0.0	0.0	0.0 *	0.0	0.0	0.0	4
5	0.0	0.0	0.9	0.0	0.4	0.2	0.6	0.0	0.0	0.0	0.0	0.0	5
6	0.0	0.0	0.4	0.0	0.0	0.5	0.6	0.0	0.0	0.0	0.0	0.0	6
7	0.0	0.0	0.1	0.0	0.0 E	0.3	1.5	0.0	0.0	0.0	0.0	0.0	7
8	0.4	0.0	0.0	0.0	0.0 E	0.1	2.3	0.0	0.0	0.0	0.0	0.0	8
9	0.0	0.0	0.0	0.0	0.0 E	0.0	1.9	0.0	0.1	0.1	0.0	0.0	9
10	0.0	0.0	0.0	0.0	0.0 E	0.0	1.5	0.0	0.0	0.0	0.0	0.0	10
11	0.0	0.0	0.0	0.0	0.0 E	0.0	1.1	0.0	0.8	0.0	0.2	0.0	11
12	0.0	0.0	0.0	0.0	0.0 E	0.0	0.9	0.0	0.5	0.0	0.0	0.0	12
13	0.0	0.0	0.0	0.0	0.0 E	0.0	0.6	0.0	0.1	0.0	0.0	0.0	13
14	0.0	0.0	0.0	0.0	0.0 E	2.8	0.6	0.0	0.1	0.0	0.0	0.0	14
15	0.0	0.0	0.0	0.0	0.0 E	4.6	0.6	0.0 *	0.1	0.0	0.2 *	0.0	15
16	0.3	0.0	0.0	0.0	0.0 E	6.6	0.4	0.0	0.0	0.0	0.0	0.0 *	16
17	0.0 *	0.0	0.0	0.0	0.0 E	5.4	0.3	0.0	0.1	0.0	0.0	0.0	17
18	0.0	0.0	0.0 *	0.0	0.0 E	3.5	0.2 *	0.0	0.0 *	0.0	0.0	0.1	18
19	0.0	0.0 *	0.0	0.0	0.0 E	2.3	0.0	0.0	0.0	0.4	0.2	0.3	19
20	0.0	0.0	0.0	0.0 *	0.0 E	1.4 *	0.0	0.0	0.0	0.0	0.1	0.5	20
21	0.0	0.0	0.0	0.0	0.0 *	1.0	0.0	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.3	0.0	0.0	0.0	22
23	0.0	0.0	0.0	0.0	0.0	9.3	0.0	0.0	0.1	0.0	0.0	0.0	23
24	0.6	0.0	0.0	0.0	0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	24
25	0.3	0.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0	0.1	0.0	25
26	0.1	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.1	0.6	0.3	0.0	26
27	0.0	0.0	0.0	0.1	0.0	2.8	0.0	0.3	0.0	0.4	0.0	0.0	27
28	0.2	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.2	0.0	0.0	28
29	0.3	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.4	0.0	0.0	29
30	0.1	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.1	0.0 *	0.0	30
31	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.3	0.0	31
MEAN	0.1	0.0	0.1	0.0	0.1	2.3	0.5	0.0	0.1	0.1	0.0	0.1	MEAN
MAX.	0.6	0.1	1.3	0.1	0.9	9.3	2.3	0.4	0.8	0.6	0.3	0.8	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.	5	0	6	0	5	141	27	2	5	5	3	3	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
0.3	9.6	0	203
	GAGE HT	GAGE HT	
	MO	MO	
	DAY	DAY	
	TIME	TIME	
	0500		

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAGE NT	DATE			FROM	TO	
37 29 58	120 39 48	NW16 5S 12E	281	5.63	1-21-69	NOV 65-DATE		1965		LOCAL
Station located at Oakdale Road Bridge, 4.0 miles northeast of Ballico. Altitude of gage is 180 feet (from U. S. Geological Survey topographic map). Drainage area is 11 square miles. Flood control structure installed one-half mile upstream in 1973.										
a Discharge measurements and partial gage height records are available in DWR files.										

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B08735	ORESTIMBA CREEK BELOW HIGHWAY 33

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	23	0.6	0.1	0.0	1.0	22	16	17	24	40	17	7.5	1
2	28	0.2	1.1	0.0	0.1	34	13	16	31	46	11	13	2
3	19	0.1	1.5	0.0	0.0	0.6	8.7	17	12	25	11	27	3
4	8.0	0.0	1.1	0.0	0.0	1.0	6.0	16	13	29	7.5	6.5	4
5	14	0.0	0.2	1.0	0.0	46	49	16	10	16	7.8	4.4	5
6	10	0.8	0.0	0.7	0.0	69	123	16	11	33	9.8	3.0	6
7	15	0.5	0.0	0.5	0.0	45	103	19	10	17	14	4.9	7
8	19	0.2	0.0	0.4	0.0	220	78	19	9.8	17	14	2.7	8
9	5.6	0.1	0.0	1.3	0.0	237	55	18	26	16	13	1.5	9
10	0.7	0.1	0.0	1.8	41	83	26	15	11	16	17	14	10
11	0.2	0.1	0.0	1.9	40	46	8.6	21	13	19	16	36	11
12	0.1	0.1	0.0	1.7	3.8	24	15	32	24	19	16	28	12
13	0.0	0.0	0.0	1.2	6.9	87	11	9.4	11	32	15	9.0	13
14	0.0	0.0	0.0	1.7	132	140	16	7.2	11	53	14	44	14
15	0.0	0.0	0.0	1.1	25	78	48	9.7	11	30	14	55	15
16	0.0	0.0	0.0	0.7	3.4	68	30	12	9.8	67	12	22	16
17	0.0	0.0	0.0	0.1	0.0	110	49	25	17	17	15	42	17
18	0.0	0.0	0.0	1.7	0.0	69	22	27	43	26	41	19	18
19	0.0	0.0	0.0	1.9	0.0	82	13	50	31	74	70	0.9	19
20	0.0	0.0	0.0	1.1	0.0	52	11	5.6	26	43	69	1.9	20
21	0.0	0.0	0.0	1.6	0.0	38	14	42	19	74	57	5.4	21
22	0.4	0.0	0.0	1.4	0.0	143	17	65	32	37	46	3.3	22
23	0.9	0.0	0.0	2.2	0.0	147	19	30	37	18	20	25	23
24	0.6	0.0	0.0	2.2	0.2	113	22	17	16	17	39	34	24
25	0.3	0.1	0.0	1.4	0.2	57	17	16	26	17	24	16	25
26	1.4	0.1	0.0	0.5	0.1	40	20	19	58	17	2.7	15	26
27	0.5	0.4	0.0	0.3	0.4	25	18	22	40	26	2.9	15	27
28	0.2	0.8	0.0	1.3	7.9	117	33	16	35	19	6.2	24	28
29	1.1	0.6	0.0	0.9	0.0	90	21	16	54	18	14	52	29
30	0.6	0.3	0.0	1.1	0.0	96	17	6.6	32	32	37	13	30
31	1.3	0.0	0.0	1.4	0.0	34		4.9		18	49		31
MEAN	4.8	0.2	0.1	1.1	9.4	77.9	30.0	21.1	23.5	29.9	22.7	16.2	MEAN
MAX.	28	0.8	1.5	2.2	132	237	123	85	56	74	70	55	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.6	6.0	4.9	9.8	16	2.7	0.9	MIN.
AC. FT.	297	10	8	66	520	4787	1784	1295	1396	1841	1396	1081	AC. FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR

OBSERVATION OF NO FLOW

- E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT.	MO	DAY	TIME	DISCHARGE	MINIMUM GAGE HT.	MO	DAY	TIME	TOTAL ACRES FEET
20	437	5.31	3	8	2130	0.0	0.85	10	14	2130	14480

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE NT	DATE			FROM	TO		
37 22 42	121 03 30	SE26 6S 8E	2650E	12.08	2-1-63	1959 to date					
<p>Station located 1.0 mile south of intersection of Crows Landing Road and Highway 33 and is 400 feet east of highway. During the summer months the flows are irrigation drainage. Records are available for a station located 0.6 mile upstream operated by USBR 1948 to 1959. Also, records are available for a station located 4.5 miles downstream operated by the Department of Water Resources 1957 to 1972. Maximum discharge of record on 2-1-63 estimated as 2,650 cfs at gage height 12.08 by extending the rating curve above 1,654 cfs. Drainage area is 196 square miles.</p>											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1975	B07200	SAN JOAQUIN RIVER AT PATTERSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	960	1200	1070	864	1150	1270	3270	1270	1450	1080	773	1110	1
2	991	1260	1060	850	1180	1280	2850	1180	1540	1080	746	1130	2
3	1010 *	1290	1110 *	839 *	1390	1240	2410 *	1130	1500 *	1040 *	770	1160	3
4	1040	1310	1230	839	2200	1190	2170	1170	1480	1010	796 *	1160 *	4
5	1030	1280	1410	833	2610	1220	2060	1120 *	1490	1020	794	1210	5
6	947	1260 *	1500	833	3380	1350	2010	1070	1450	1020	784	1220	6
7	965	1270	1520	841	3690 *	1500	2070	1110	1360	988	800	1220	7
8	968	1290	1470	844	3820	1710	2220	1050	1580	936	811	1180	8
9	921	1300	1400	852	3750	2030	2290	1010	1950	936	796	1200	9
10	886	1300	1330	864	3500	2170	2570	961	2130	910	830	1210	10
11	988	1290	1290	938	3440	2080	2800	1010	2450	867	860	1290	11
12	1140	1290	1260	977	3320	2150	2840	1050	3000	637	832	1360	12
13	1190	1260	1220	971	3690	2160	2660	1010	3430	631	793	1380	13
14	1190	1240	1220	957	4170	2160	2510	1030	3650	865	796	1460	14
15	1120	1260	1210	958	4420	2220	2360	1130	3660	689	817	1570	15
16	987	1250	1190	956	4340	2320	2080	1260	3750	940	823	1560	16
17	919	1250	1160	957	4000	2300	1930 *	1360	3910 *	951	924	1570	17
18	863	1250	1130	956	3620	2250	1630	1430	3940	967	1030	1550	18
19	843	1240	1070	951	3120	2190	1880	1500 *	3420	957	1100	1450	19
20	827	1230	1020	991	2540	2140	2000	1500	2550	937	1080	1440	20
21	819	1220	979	1060	2130 *	2080 *	2020	1520	1930	912	1200	1480	21
22	850	1190	948	1120	1870	2030	1910	1580	1760	880	1270	1560	22
23	860	1170	926	1150	1730	2100	1850	1570	1710	849	1240	1580	23
24	846	1160	912	1180	1610	2330	1650	1550	1600	821	1220	1580	24
25	833	1150	901	1190	1530	2480	1540	1570	1580	782	1220	1640	25
26	817	1140	890	1180	1450	2730	1510	1570	1510	751	1180	1620	26
27	835	1120	887	1170	1380	3070	1500	1630	1420	731	1130	1590	27
28	947	1110	889	1150	1340	3510	1500	1540	1350	744	1090	1660	28
29	1050	1100	892	1150	1370	3720	1390	1490	1280	775	1050	1760	29
30	1100	1080	879	1160	1310	3810	1310	1470	1170	787	1060	1850	30
31	1130		870	1150	3640		1430			778	1120		31
MEAN	964	1225	1124	992	2735	2209	2100	1300	2167	899	959	1425	MEAN
MAX.	1190	1310	1520	1190	4420	3810	3270	1630	3940	1080	1270	1850	MAX.
MIN.	617	1080	870	833	1150	1190	1310	981	1170	731	746	1110	MIN.
AC FT	59290	72910	69110	60970	151900	135800	125000	79920	129000	55280	58980	84790	AC FT

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM	GAGE HT	MO	DAY	TIME	DISCHARGE	MINIMUM	GAGE HT	MO	DAY	TIME	TOTAL
14.96	4450	40.52	2	15	1615		712	32.77	7	27	1615		1083000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CF5	GAGE HT	DATE				FROM	TO	
37 29 40	121 04 50	SW15 5S 8E		54.0	6-13-38				1938	1959	USED
				50.47a	6-13-38	OCT 69-DATE			1959		USCGS
			9,600b	46.12	2-16-73				1959		USED
Station located on the Patterson-Turlock Bridge, 3.1 miles northeast of Patterson. Drainage area is 9,758 square miles.											
a Reflects present datum.											
b Maximum discharge since station was rated in October 1969.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	804150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1600 *	2910 *	1020	2130	3470	972	630	317	314	80	80	139	1
2	1070	3510	1180 *	1740	1790	1020	551	304 *	131	77	118	137	2
3	1050	3300	1560	3890	1420	1290	342	325	109	76 *	120	228 *	3
4	862	3170	1280	3340	2700	1960	328	331	107 *	78	103	517	4
5	536	1300	1490	2120	2520	1960	476	329	249	79	247	939	5
6	482	781	1550	1800	2410	2280 *	417	331	286	87	226	988	6
7	451	783	1530	3710	2360 *	2160	486	333	163	73	115	1060	7
8	462	800	1540	3310 *	1840	1740	641 *	368	126	65	101	757	8
9	422	816	1500	3530	1260	1030	581	338	119	106	158	704	9
10	390	848	1550	3700	1260	1440	489	337	282	116	137	912	10
11	544	865	1560	3170	2170	2300	371	332	355	196	112	697	11
12	495	864	1610	1940	2090	916	333	329	178	156	198	1050	12
13	307	889	1560	1710	2430	704	330	369	132	92	142	995	13
14	111	910	1590	3640	2390	942	329	522	261	80	116	685	14
15	279	993	1600	3970	1920	742	330	336 *	134	111	110	646	15
16	1500	1050	1500	4100	1170	761	326	331	116	92	114	633	16
17	1490	1090	1070	4200	674	748	327	330	105	82	119	628	17
18	1480	1110	1010	3690	1230	913	330 *	331	106 *	112	197	731	18
19	1360	1110 *	1020	2380	2290	1830	330	324	107	89	277	1020	19
20	1600	1110	1250	1990 *	2450	2210 *	333	328	106	81	160	677	20
21	1670	1120	1470	4390	2510	2110	324	319	102	81	119	627	21
22	2540 *	1120	942	4290	2070	1920	325	319	103	111	160	637	22
23	2670	1110	939	4390	1150	1010	324	315	105	480	134	973	23
24	2660	1120	1660	4160	1310	1240	324	379	97	307	129	1070	24
25	2650	1120	2110	3280	2070	1820	323	317	103	250	127	1300	25
26	2530	1100	1710 *	1920	1590	825	329	309	101	272	181	1340	26
27	2380	1000	3580	1950	825	702	335	304	97	130	140	1120	27
28	2490	947	3230	4240	709	664	323	440	97	103	133	753	28
29	2670	859	2200	4300	631	631	325	542	94	114	132	616	29
30	2460	1000	1740	4320	635	635	320	588	87	97	132	708	30
31	2360		3440	4360	639	639		508		89	139		31
MEAN	1406	1290	1646	3286	1860	1294	381	362	149	128	144	776	MEAN
MAX.	2670	3510	3580	4390	3470	2300	641	588	355	480	277	1340	MAX.
MIN.	111	781	939	1710	674	631	320	304	87	73	80	137	MIN.
AC FT.	86420	76770	101200	202000	103300	79570	22680	22260	8870	7898	8878	46190	AC FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE 1058	DISCHARGE 7070 GAGE HT 74.92 MO 2 DAY 1 TIME 0330	DISCHARGE 70 GAGE HT 69.61 MO 7 DAY 1900	ACRE FEET 766000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		ZERO ON GAGE
			CF5	GAGE HT	DATE				FROM	TO	
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 35 JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE			1932		-1.13
Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge. Drainage area is 1,655 square miles.											

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1975	B04130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	106	134	144	14	17	24	69 *	82	77	147 *	79	88	1
2	105	123	176 *	14	16	26	59	95	83	89	84	85	2
3	113	112	204 *	16 *	407	43	66	100	82	93	79	83 *	3
4	104	107	188	16	343 *	71	79	106	81 *	83	81 *	85	4
5	106	105	279	14	342	74	70	103	75	80	80	107	5
6	107	107	247	17	179	74	206	98	76	85	72	98	6
7	106	109 *	231	20 *	93	63	298	105	84	146	68	92	7
8	103 *	152	224	18	83	112	228	86	73	138	75	93	8
9	99	227	218	17	122	315	200	87	77	61	76	94	9
10	103	226	218	22	704	186 *	161	79	77	74	75	94	10
11	111	224	240	36	282	155	122	94	85	80	76	90	11
12	106	223	242	26	110	132	109	87	80	85	87	96	12
13	112	223	236	21	119	100	102	82	91	90	78	89	13
14	105	201	232	18	827 *	629 *	94	81	77	77	72	71	14
15	95	148	227	20	279	450	85	65	70	77	70	81	15
16	127	149	222	18	98	213	80	80	103	78	81	89	16
17	110	142	220	15	66	652	89	78	170	75	77	89	17
18	103	156	218	14	55	197	100	69	78	80	89	84	18
19	100	194	215	14	48	125	95	65	86	82	136	95	19
20	94	52	214	14	43	107	98	77	96	88	122	94	20
21	103	29	102	15 *	41 *	102 *	106 *	79	96	91	111	105	21
22	282	25	30	15	47	393	104	75	101	118	106	102	22
23	390	24	25	15	42	797	101	81	143	106	91	99	23
24	397	24	32	14	38	279	96	82	160	79	91	104	24
25	390	24	20	15	35	240	92	81	84	75	102	94	25
26	223	23	17	14	34	530 *	109	77	88	71	105	91	26
27	178	23	17	13	32	248	114	68	91	82	106	102	27
28	171	24	18	14	27	139	95	68	86	82	83	96	28
29	156	24	16	14		104	103	72	79	82	82	90	29
30	119	28	15	13		89	90	75	126	82	81	90	30
31	121		15	13		79		74		77	87		31
MEAN	150	112	152	16.7	162	218	114	82.3	92.7	89.5	87.2	92.3	MEAN
MAX.	397	227	279	36	827	797	298	106	170	147	136	107	MAX.
MIN.	94	23	15	13	16	24	59	65	70	71	68	71	MIN.
AC. FT.	9213	6668	9326	1029	8983	13380	6783	5060	5516	5500	5359	5494	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT	MO	DAY	TIME	DISCHARGE	MINIMUM GAGE HT	MO	DAY	TIME	TOTAL ACRE FEET
114	1350	76.05	3	23	0030	12	67.54	1	31	1400	82310

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R W D & S M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 39 26	120 55 19	SE24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE		1941		0.00	USCGS
Station located 0.1 mile downstream from Claus Road Bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 to March 1941, records available for a site 2.5 miles downstream. This is a Department of Water Resources-Modesto Irrigation District cooperative station. Drainage area is 192.3 square miles. There are no upstream impairments.											

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	E04105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2010	2800	1610	2520	3070	1050	1170	556	659	339	305	321	1
2	1850	3090	1690	1770	2520	1230	1010	558	564	292	295	318	2
3	1590	3310	1900	1980	1690	1150	832	567	427	287	315	292	3
4	1550	3240	2010	2600	2210	1490	672	586	360	292	334	360	4
5	1400	3010	1770	2650	2460	1810	662	595	344	306	321	360	5
6	1240	2100	1980	1890	2550	1990	769	582	410	342	413	818	6
7	1200	1680	2070	2100	2450	2170	874	592	461	336	410	943	7
8	1170	1620	2070	2830	2420	2230	943	573	401	366	313	957	8
9	1140	1680	2070	2800	2110	2060	1150	596	366	323	308	846	9
10	1010	1690	2050	2890	2000	1770	1110	561	339	295	339	839	10
11	965	1700	2080	2940	2220	2000	939	586	467	313	344	892	11
12	1040	1690	2100	2640	2290	2300	776	579	561	362	313	881	12
13	996	1700	2110	1830	2330	1650	709	567	491	377	352	1000	13
14	835	1700	2110	2060	2780	1640	669	620	506	334	342	976	14
15	630	1660	2120	2840	3070	2150	627	672	643	270	297	864	15
16	817	1710	2130	2980	2470	1660	598	589	636	313	295	857	16
17	1650	1740	1890	3020	1860	1840	582	570	709	303	318	769	17
18	1740	1750	1550	3070	1450	1700	601	582	702	297	344	780	18
19	1730	1790	1480	2800	1710	1660	601	561	630	310	617	860	19
20	1710	1740	1460	1910	2100	2120	620	545	430	300	699	954	20
21	1820	1660	1610	2170	2130	2290	614	582	344	300	503	853	21
22	2010	1650	1490	2930	2140	2330	579	542	344	270	374	804	22
23	2710	1620	1200	3030	1830	2670	570	542	318	313	368	835	23
24	3070	1620	1260	3060	1320	2000	576	554	363	567	344	994	24
25	3130	1620	1700	2970	1520	1960	620	589	313	536	328	1090	25
26	3110	1620	1630	2520	1830	2260	579	554	285	476	323	1210	26
27	2970	1610	1840	1700	1530	1840	624	533	297	479	350	1250	27
28	2890	1540	2560	2090	1160	1490	598	521	297	385	347	1140	28
29	2900	1480	2450	2860	1320	1290	567	620	300	344	305	954	29
30	2940	1450	1830	2990	1290	1310	567	695	285	328	305	835	30
31	2870		1970	2990				725		318	318		31
MEAN	1830	1910	1860	2570	2120	1820	727	584	442	345	359	836	MEAN
MAX.	3130	3310	2560	3070	3070	2670	1170	725	709	567	699	1250	MAX.
MIN.	630	1450	1200	1700	1160	1050	567	521	285	270	295	318	MIN.
AC. FT.	112500	113600	114600	157900	117500	111900	43260	35900	26280	21210	22090	49730	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE 1280	DISCHARGE 3350	GAGE HT 31.04	MO 11
	MO 11	DAY 3	TIME 2115
	DISCHARGE 263	GAGE HT 23.25	MO 7
		DAY 15	TIME
			ACRE FEET 926500

LOCATION				MAXIMUM DISCHARGE				PERIOD OF RECORD				DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R N D B & M		OF RECORD				DISCHARGE	GAGE WEIGHT ONLY			PERIOD		ZERO ON GAGE	REF DATUM
				CFS	GAGE HT	DATE						FROM	TO		
37 36 12	121 07 50	NW 7 4S BE			46.65	12- 9-50		1930-DATE					1959	0.00	USED
					43.15a	12- 9-50								0.00	USCGS
				37900b	42.86	1-27-69							1960	3.50	USED
Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Flows regulated by upstream reservoirs and diversions.															
a Reflects present datum.															
b Maximum discharge since Department of Water Resources began operation of station in April 1966.															

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	807040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3160 *	4180	2810	3150	4320	2690	4670	1960	2220	1490	1020	1640	1
2	3130	4410	2890	2880	4210	2730	4230	1880 *	1800	1350 *	983	1600	2
3	2890	4780	3060 *	2520	4400	2810	3570	1870	1750 *	1320	1000	1640	3
4	2840	4890 *	3390	3400	3850 *	2720	3120 *	1800	1510	1320	1060 *	1630	4
5	2750	4770	3310	3500	5030	3100 *	2920	1670	2130 *	1340	1010 *	1830	5
6	2550	4000	3510	3070	5750	3450	2920	1720	1600	1300	1010	2060	6
7	2470	3330	3700	2660	6090	3000	3060	1730	1620	1300	1060	2210	7
8	2460	3100	3690	3600 *	6250	4200	3200	1680	1750	1310	1080	2240	8
9	2400	3220	3630	3640	6000	4370 *	3570	1660	2140	1330	1090	2220	9
10	2250	3250	3520	3720	5600	4310	3710	1630	2180	1280	1110	2190	10
11	2200	3230	3450	3630	5630 *	4200	3740	1690	2540 *	1180	1180	2320 *	11
12	2430	3230	3440	2740	5100	4790	3650	1650	2670	1200	1160	2380	12
13	2540	3250	3410	3140	5100	4420	3500	1510	2980	1210	1130	2510	13
14	2490	3260	3300	2760	6520	4220	3320	1590	3200	1180	1110	2520	14
15	2280	3220	3300	3500	7430	4720	3170	1770	3410	1140	1100	2560	15
16	2160	3210	3340	3800	7000	4770	2970 *	1800 *	3720	1150	1120	2600	16
17	2690	3210	3160	3700	6270	4400	2690	1950	3790 *	1240	1240	2560	17
18	2820	3200	2780	3930	5410	4580	2640	2120	4040 *	1240 *	1520	2570	18
19	2800	3200	2620	3780	5100	4460 *	2610	2150	3950	1300	1650	2580 *	19
20	2720	3180 *	2520	3100	4810	4810	2670	2260	3480	1320	1200	2660 *	20
21	2800	3060	2520	2800 *	4840	5080	2740	2290	2590	1260	1630	2670	21
22	2870	3040	2490	3840	4570	6060	2620	2320	2310	1160	1800	2680	22
23	3190	2970	2190	4060	4260	5200	3570	2260	2230	1070	1840	2700	23
24	3890	2940	2100	4170	3640	5100	2460	2230	2150 *	1140	1610	2790	24
25	4020	2930	2360	4100	3360	4030	2310	2260	2050	1250	1720	2870	25
26	4050	2920	2470	3910	3770 *	5270	2260	2240	1950	1110	1560	3020	26
27	3960	2880	2300 *	3230	3490	5250	2290	2340 *	1850	1130	1530	3090	27
28	3980	2830	2990	2950	2950	5020	2280	2250	1730	1050	1510	3090	28
29	4060	2780	3080	3400	5020	5020	2160	2100	1680	1030	1470	3010	29
30	4220	2710	2790	4150	4990	4990	2010	2170	1590	1030	1480	2960	30
31	4240	2480	4260	4260	3120	3120	2200	2200	1070	1600			31
MEAN	3020	3380	2990	3460	5070	4370	2990	1970	2430	1220	1350	2450	MEAN
MAX	4240	4790	3700	4260	7430	5280	4870	2320	4040	1490	1900	3090	MAX
MIN	2180	2710	2100	2520	2950	2630	2010	1530	1510	1030	983	1600	MIN
AC. FT.	185500	200900	184000	212700	281300	264900	177000	121400	144700	75330	83070	145700	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
2870	7470	22.40	2	15	1035	931	14.28	6	6		2081000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R N D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	FROM	TO	ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE							
37 38 28	121 13 37	SW29 3S 7E	45,550	36.87 37.31 ^a	2-28-69 1-27-63	JAN 50-MAR 52 OCT 65-DATE	SEP 43-DEC 49 APR 52-SEP 65	1943 1959	1959		0.00 0.00 3.41	USED USCGS USED
Station located at State Highway 132 Bridge, 13 miles west of Modesto, two miles upstream from mouth of the Stanislaus River. Gage height-discharge relation affected by backwater from the Stanislaus River during high flows in the Stanislaus. Flows regulated by upstream reservoirs and diversions. Drainage area is 12,400 square miles.												
a This maximum gage height of record does not represent the maximum discharge of record as the station was affected by backwater from the Stanislaus River.												

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1975	B03175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	35	74	1210	112	44	925	1400 *	171	6330	39 *	50 *	33	1
2	34	69	1210 *	116	59	921	1100	860	7190 *	222	44	33	2
3	37	63	1250	115 *	97	640	887	2140	6370	277	41	31 *	3
4	37	67	1240	107	839 *	89	779	2530	4730 *	194	43	27	4
5	33	96	1170	112	1970	65	769	2650	6210 *	247	41	30	5
6	34	167	1160	121	1950	64	876	2760 *	5870	192	45	29	6
7	37	161 *	1150	111	1850	65	925	2750	5990	455	40	26	7
8	40 *	181	1140	132	1710	206	1080	2690	5970	722	33	28	8
9	37	194	1140	127	1980	868	1130	2330	5650	382	32	30	9
10	35	192	1130	121	2020	858 *	1130	1820	4500	106	35	29	10
11	41	190	1130	115	1950	1290	1150	1810	2640 *	50	39	27	11
12	44	190	1120	116	1920	1760	1150	2070	1740	53	33	30	12
13	41	182	1120	112	2140	1850	1140	2430	3260	50	30	28	13
14	36	180	1110	113	1990	1690	940	2230	3890	46	32	27	14
15	36	185	1100	110	1910	1780	706	2300	3620	51	32	26	15
16	32	179	1100	105	1900	2050	544	2290 *	3810 *	59	30	28	16
17	33	174	1100	104	1590	1790	472	2320	3620	60	28	26	17
18	33	171	1090	106	1630	1770	425	2350	3240	54	39	23	18
19	32	156	1080	106	1650	1750	366	2430	1630	54	42	24	19
20	32	157	919	100	1850	1750	345	2500	447	48	33	30	20
21	37	150	429	107 *	1670 *	1760	346	2490	140	47	29	34	21
22	36	212	370	101	1860	2160	399	2440	69	48	28	32	22
23	315	602	363	104	1560	1810	391	2400	54	47	23	32	23
24	424	710	291	102	1860	1840	396	2340	46 *	39	22	33	24
25	575	870	63	102	1640	1910	398	2400	46	37	23	33	25
26	535	1200	67	99	1060	1810	393	2450	45	41	24	29	26
27	538	1210	69	103	933	1780	391	2530	48	44	35	29	27
28	519	1210	71	101	928	1770	392	2570	51	48	38	29	28
29	423	1210	98	102	1770	1770	330	2600	45	47	38	29	29
30	85	1210	116	79	1630	1630	314	2710	40	43	36	34	30
31	80		117	50	1440	1440		4750		49	32		31
MEAN	138	388	798	106	1567	1357	702	2359	2923	127	34.5	29.3	MEAN
MAX	575	1210	1250	132	2140	2160	1400	4750	7190	722	50	34	MAX
MIN.	32	63	67	50	44	64	314	171	40	37	22	23	MIN.
AC FT	8515	23070	49060	6545	87020	83430	41790	145100	173900	7837	2122	1743	AC FT

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE 870	DISCHARGE 7550 GAGE HT 13.88 MO 6 DAY 2 TIME 1615	DISCHARGE 20 GAGE HT 1.52 MO 8 DAY 23 TIME 1700	ACRE FEET 630100

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF DATUM
			CFS	GAGE HT	DATE			FROM	TO	
37 47 18	120 45 41	SW 4 2S 11E	62000	31.8	12-23-55	JUN 28-DEC 39 APR 40-DATE				117.21 USC&GS

Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. This station is equipped with radio telemeter.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B03115	STANISLAUS PIVER AT KOETITE RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	505	420	1090	271	180	1140	1610	706	3870	454	347	434	1
2	471	393	1110	261	173	1120	1450	614	4,30	416	380	363	2
3	439	352	1220	255	169	1040	1370	902	5,740	424	315	249	3
4	425	329	1340	249	181	913	1100	1930	6290	547	346	314	4
5	455	316	1300	246	438	761	1040	2380	5140	497	351	284	5
6	406	313	1260	240	1310	664	1000	2550	5740	607	306	296	6
7	386	336	1310	243	1590	614	1140	2750	6030	574	320	361	7
8	397	361	1310	234	1650	651	1110	2810	6110	623	352	440	8
9	375	343	1310	234	1610	627	130	2620	6110	609	380	426	9
10	396	293	1300	242	1750	919	1000	2500	5990	684	389	346	10
11	409	279	1300	233	1850	1010	1530	2110	5430	489	375	339	11
12	444	273	1300	228	1820	1260	1480	2130	4030	434	339	332	12
13	501	269	1300	224	1840	1620	1400	2240	2050	459	354	265	13
14	542	267	1310	221	2090	1940	1420	2550	3320	405	299	270	14
15	550	291	1300	216	2000	2020	1220	2450	3960	379	319	329	15
16	433	332	1300	218	1670	1940	1000	2460	4100	367	323	352	16
17	395	412	1300	212	1840	2110	980	2450	4140	351	356	304	17
18	347	420	1300	210	1830	1950	909	2510	4060	398	412	297	18
19	307	431	1290	207	1820	1900	846	2520	3740	376	468	336	19
20	299	406	1290	208	1820	1890	801	2620	2420	412	513	393	20
21	312	311	1180	204	1820	1990	736	2790	1390	427	488	407	21
22	309	386	756	203	1810	1970	800	2730	1080	385	465	430	22
23	297	280	591	202	1810	2210	700	2620	401	372	393	385	23
24	301	424	536	199	1810	2010	24	2680	525	355	421	352	24
25	424	618	511	198	1870	1960	46	2630	677	335	357	361	25
26	578	697	442	196	1850	2030	84	2610	561	326	284	310	26
27	561	926	363	195	1360	1930	914	2640	549	370	353	345	27
28	529	1010	326	192	1180	1850	804	2710	543	396	379	314	28
29	522	1050	307	194		1850	817	2710	545	385	356	354	29
30	498	1070	295	191		2020	779	2770	523	386	325	356	30
31	434		282	187		1910		2890		386	377		31
MEAN	427	452	1004	220	1478	1542	1109	2382	3295	446	370	347	MEAN
MAX.	578	1070	1340	271	2090	2210	1610	2890	5290	609	513	440	MAX.
MIN.	297	267	282	187	169	614	779	614	523	326	264	270	MIN.
AC. FT.	26280	26890	61750	13520	82060	94810	65970	146400	202000	27440	22770	20660	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM	GAGE HT	MO	DAY	TIME	DISCHARGE	MAXIMUM	GAGE HT	MO	DAY	TIME	TOTAL
1092	6370	44.93	6	4	1015		167	27.96	2	3	1805		790600

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD	ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
37 41 57	121 10 08	SW 2 3S 7E		50.5a	12-24-55	OCT 62-DATE	MAR 50-SEP 62		1950	1962	-0.63 USC&GS
									1963	1969	0.37 USC&GS
									1970		0.00 USC&GS

Station located on left bank 9.35 miles upstream from mouth, 0.6 mile northwest of Bacon and Gates Road Junction, 3.7 miles southwest of Ripon. It is possible that backwater from San Joaquin River could affect the stage-discharge relationship. Flow regulated by upstream reservoirs and diversions. Drainage area is 1,094 square miles.

a Water bypasses station by overflowing flood plain on right bank and discharge is not computed. Overflowing occurs at approximately 45 feet gage height.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3760	4710	3860	3580	4290	3830	6420	2510	4980	2030	1430	1930	1
2	3830	4830	4000	3480	4250	3750	5800	2360	5860	1930	1400	1790	2
3	3560	5140	4200	2850	3540 *	3850	5060	2330	6550	1860	1430	1770	3
4	3400	5240	4650	3680	3610	3580	4450	3090	7350	1930	1450	1710	4
5	3330	5180	4640 *	3890	4790	3750	4100	3660	7570	1970	1420	1890	5
6	3120	4580	4740	3550	6080	3930	3990	3690	7070	2040	1350	2130	6
7	2990	3860	5010	2920	6910	4270	4140	3910	7350	2030	1400	2380	7
8	2970	3680	5070	3770	7250	4640	4320	4060	7560	1910	1440	2500	8
9	2920 *	3670	5030	3880	7200	4860	4880	4000	7880	2020	1470	2460	9
10	2770	3660	4940	3940	6870	5000	5110	3960	8100	1980	1490	2340	10
11	2600	3610	4890	4050	6950	5060	5100	3670	8000	1740	1550	2470	11
12	2660	3600 *	4860	4060	7140	5610	4960	3570	7510	1680	1520	2570	12
13	3040	3610	4840	3590	7110	5800	4740	3440	6030	1680	1440	2770	13
14	3040	3640	4830	2950	7800	5730	4560	3690	6120	1630	1400	2800	14
15	2940	3590	4840	3740	8820	6350	4240	3840	7160	1560	1350	2800	15
16	2690	3620	4840	4020	8670	6300	3880	3970	7740	1550	1340	2910	16
17	3020	3680	4730	4120	7950	6230	3470	4070	7840	1650	1480	2810	17
18	3220	3670	4350	4160	7120	6380	3340	4240	8040	1670	1850	2760	18
19	3140	3670	4130	4080	6710	6070	3220	4340	7810	1760	2270	2790	19
20	3060	3660	4010	3610	6830	6330	3240	4350	6600	1780	2420	2940	20
21	3080	3480	3940	2990	6610	6590	3310	4550	4380	1760	2300	2980	21
22	3140	3400	3690	3940	6300	6420	3190	4650	3480	1620	2230	2980	22
23	3560	3340	3130	4230	6010	7070	3070	4550	3130	1460	2220	2950	23
24	4120	3340	2870	4350	5410	7040	2970	4470	2860	1470	2200	3010	24
25	4380	3500	3080	4340	5030	6530	2890	4530	2700	1630	2090	3060	25
26	4560	3600	3250	4140	5460	6930	2900	4580	2440	1490	1760	3210	26
27	4570	3740	2890	3550	4990	7010	2950	4540	2330	1550	1710	3250	27
28	4530	3830	3560	3000	4240	6740	2970	4590	2290	1500	1710	3250	28
29	4620	3830	3740	3880	6630	2810	4580	2260	1440	1640	3210	29	29
30	4770	3760	3470	4150	6820	2630	4630	2240	1460	1620	3150	30	30
31	4820	2930	4270	6920	6920	4700	4700	1490	1740	1680	2652	31	31
MEAN	3497	3891	4162	3766	6212	5685	3957	3972	5708	1718	1680	2652	MEAN
MAX.	4820	5240	5070	4350	8820	7070	6420	4700	8100	2040	2420	3250	MAX.
MIN.	2600	3340	2870	2850	3610	3580	2630	2330	2240	1440	1340	1710	MIN.
AC. FT.	215000	231500	255400	231600	345000	349500	235500	244200	339600	105700	103300	157800	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM	MINIMUM	TOTAL
3888	9080	GAGE HT 18.60 MO 2 DAY 15 1845	DISCHARGE 1340 GAGE HT 10.24 MO 8 DAY 16 1815	2815000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 40 34	121 15 55		79000	27.75	12-9-50	JUL 22-DEC 23		1931	1959	6.4	USED
				32.81a	12-9-50	JAN 24-FEB 25					
			52600	34.55	1-27-69	JUN 25-OCT 28		1931	1959	5.06	USCGS
						MAY 29-DATE		1959		0.00	USCGS

Station located on left bank 20 feet downstream from the Durham Ferry Highway Bridge, 2.4 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles. Natural flow of stream affected by storage reservoirs, power developments, ground water withdrawals and diversions for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with DWR radio telemeter. The records are furnished by the U. S. Geological Survey.

a Reflects present datum. The gage height of 32.81 feet does not represent the maximum discharge of 79,000 cfs as water was bypassing the station through levee breaks upstream from station.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B71408	MUSICK CREEK #2 NEAR SHAVER LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	.030	.301	.081	.217	.392 E	1.31	1.65	2.65	1.31	.438	.301	.100	1
2	.100	.217	.081	.236	1.05	1.14	1.65	3.42	1.31	.483	.217	.081	2
3	.081	.178	2.14	.236	.347	.96E	1.65	3.86	1.31	.483	.217	.061	3
4	.100	.158	3.86	.236	.301	.96E	1.71	3.42	1.23	.438	.236	.061	4
5	.120	.139	.574	.236	.342	2.42	1.40	2.65 *	1.14	.392	.217	.045 *	5
6	.100	.120	.301 *	.665	.392	3.64	1.48	2.71	1.05	.392	.236	.045	6
7	.045 *	.120	.236	.710	.526	3.86 *	1.48	2.99	1.05	.347 *	.217	.061	7
8	.120	.120 *	.217	1.23	1.05	4.94	1.48	3.86	1.05	.301	.178	.061	8
9	.081	.120	.198	.665	3.86	2.28	1.40	4.29	.96E *	.301	.178	.081	9
10	.100	.120	.217	.526	2.14	1.65	1.40	4.73	.96E	.301	.198	.031	10
11	.100	.120	.198	.438	1.71	1.48	1.4	4.73	.96E	.301	.178	.061	11
12	.045	.120	.198	.392	1.31	1.40	1.40	5.16	.9	.301	.178	.061	12
13	.045	.100	.198	.392	3.21	1.31	1.71	5.47	.96E	.301	.178	.081	13
14	.045	.100	.178	.347	2.00 E	1.23 E	2.14	5.47	.96E	.217	.178	.100	14
15	.045	.100	.178	.347	1.31 E	1.31 E	1.71	4.94	.796	.256	.178	.100	15
16	.015	.100	.198	.347	1.14 E	1.31 E	1.48	4.51	.796	.392	.178	.100	16
17	.030	.178	.198	.347	.96E E	1.14 E	1.40	4.08	.796	.438	.178	.081	17
18	.061	.217	.198	.347	.710 #	1.23 E	1.40	3.86	.682	.392	.198	.061	18
19	.081	.217	.198	.347	.665	1.40 E	1.40	3.64	.96E	.347	.217	.061	19
20	.081	.217	.198	.347	.710	1.65 E	1.85	3.21	.96E *	.347	.217	.045	20
21	.061	.528	.217	.347	.619	1.71 E	2.28	2.85	.882	.347	.178	.061	21
22	.045	.528	.217	.347	.619	1.57 E	2.42	2.71	.796	.301	.158	.045	22
23	.061	.178	.217	.347	.619	1.40 E	2.42	2.42	.685	.301	.158	.030	23
24	.061	.139	.198	.347	.665	1.71 E	3.86	2.42	.619	.301	.158	.061	24
25	.081	.139	.198	.347	.665	5.47 E	5.47	2.28	.619	.256	.139	.030	25
26	.120	.120	.198	.301	.710	2.85 E	2.71	2.14	.619	.236	.139	.061	26
27	.139	.120	.198	.256	.96E	2.56 E	2.56	1.85	.574	.236	.120	.100	27
28	.392	.100	.256	.236	1.23	2.28 E	2.71	1.85	.619	.301	.100	.081	28
29	.217	.100	.217	.236		2.28 E	2.85	1.71	.528	.256	.100	.045	29
30	.158	.081	.217	.236		2.14 E	2.99	1.48	.483	.301	.100	.030	30
31	.217		.217 *	.256		2.00 #		1.40		.301	.100		31
MEAN	.096	.170	.393	.383	1.08	2.03	2.07	3.33	.884	.332	.178	.066	MEAN
MAX.	.392	.528	3.86	1.23	3.86	5.47 E	5.47	5.47	1.31	.483	.301	.100	MAX.
MIN	.015	.081	.081	.217	.301	.96E	1.31	1.40	.483	.217	.100	.030	MIN
AC. FT.	5.99	10.1	24.2	23.5	60.0	125	123	205	52.6	20.4	11.0	3.95	AC. FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM	MINIMUM	TOTAL
.917	19.0	1.83	0	664.2
		GAGE HT	GAGE HT	ACRE FEET
		4	0.99	
		24	10	
		2215	16	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
37 5 12	119 20 35	SW3 10 24				11-2-73		1973		Assumed	

Station located 4.0 miles south of Shaver Lake on Highway 166 and 1.5 miles west on private road.
 Station operated under contract with Fresno County. Due to the importance of extreme low flows to
 contractor, the Department of Water Resources criteria of rounding values were not adhered to.
 Drainage area is 1.3 square miles.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B71406	MUSICK CREEK #1 NEAR SHAVER LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	.013	.481	.15	.430	.797	2.59	3.78	9.64	4.88	1.80	.583	.224	1
2	.062	.224	.157	.430	2.59	2.20	3.78	10.6	4.33	1.69	.532	.224	2
3	.078	.141	10.1	.430	.635	2.00	4.61	11.0	4.33	1.69	.532	.378	3
4	.047	.532	10.1	.430	.635	1.60	4.06	10.6	3.58	1.69	.532	.157	4
5	.047	.532	1.69	.430	.797	6.32	3.19	8.54	3.58	1.58	.430	.157	5
6	.047	.157	1.02	2.00	.909	6.52	3.78	8.10	3.39	1.47	.430	.157	6
7	.047	.224	.686	1.47	1.02	8.54	3.39	8.76	3.19	1.35	.430	.157	7
8	.110	.378	.583	2.40	1.69	11.8	3.19	10.3	3.19	1.24	.378	.173	8
9	.094	.327	.532	1.58	7.69	6.32	3.39	11.8	3.19	1.24	.378	.276	9
10	.078	.327	.481	1.24	5.58	5.06	3.39	12.3	3.39	1.24	.378	.276	10
11	.062	.276	.481	1.02	5.06 E	3.78	2.90	12.8	3.19	1.13	.327	.224	11
12	.062	.224	.481	.909	4.06 E	3.58	3.78	13.6	2.79	1.13	.327	.224	12
13	.078	.224	.481	.797	6.52 E	2.59	4.33	13.6	2.90	1.02	.327	.173	13
14	.094	.224	.481	.797	4.33 E	2.79	4.88	13.3	2.79	1.02	.327	.157	14
15	.047	.224	.430	.797	3.39 E	2.59	4.06	12.3	2.59	1.02	.276	.157	15
16	.031	.173	.430	.797	2.79 E	2.59	3.19	11.8	2.59	1.13	.276	.141	16
17	.031	.224	.430	.797	2.20 E	2.00	2.90	10.8	2.59	1.24	.276	.141	17
18	.015	.224	.378	.797	1.69	2.20	2.79	10.6	2.40	1.24	.327	.141	18
19	.110	.276	.430	.797	1.58	2.59	2.90	10.1	2.40	1.13	.583	.141	19
20	.062	.276	.430	.797	1.47	3.78	4.61	9.42	2.20	1.02	.481	.126	20
21	.047	2.55	.430	.797	1.35	3.19	5.76	8.54	2.20	.909	.430	.110	21
22	.047	1.24	.430	.797	1.24	2.90	5.93	8.10	2.00	.797	.430	.094	22
23	.047	.481	.378	.797	1.35	2.20	6.52	7.69	1.80	.797	.378	.110	23
24	.047	.378	.327	.686	1.35	3.19	11.1	7.49	1.80	.797	.378	.110	24
25	.047	.327	.378	.686	1.47	13.3	14.8	7.10	2.00	.686	.327	.110	25
26	.062	.276	.378	.635	1.47	6.52	8.76	6.91	2.00	.635	.327	.110	26
27	.078	.224	.430	.583	1.80	4.61	7.69	6.32	2.00	.635	.430	.110	27
28	3.680	.224	.481	.532	2.20	3.78	8.32	5.76	2.40	.635	.378	.126	28
29	.635	.224	.481	.481		3.58	8.76	5.41	2.00	.635	.327	.126	29
30	.378	.173	.481	.481		4.06	9.42	5.23	1.69	.635	.276	.110	30
31	.909		.430	.481		4.06		5.23		.635	.276		31
MEAN	.23	.39	1.12	.84	2.42	4.30	4.56	9.48	2.78	1.09	.39	.16	MEAN
MAX	3.64	2.55	10.1	2.40	7.69	13.3	14.8	13.8	4.88	1.80	.583	.378	MAX
MIN.	.013	.141	.157	.430	.635	1.80	2.90	5.23	1.69	.635	.276	.094	MIN.
AC FT.	14.2	23.3	68.6	51.8	134 E	264	271	583	165	67.2	24.0	9.8	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL ACRE FEET
2.32	33.9	1.78	12	3	2300	.012	0.32	10	1		1676.7

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC T & R M D B & M	OF RECORD		DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CF5	GAGE HT.				FRDM	TO		
37 5 34	119 19 55	SN2 10 24				11-2-73		1973			Assumed

Station located 4.0 miles south of Shaver Lake on Highway 168 and 2.5 miles west on private road. Station operated under contract with Fresno County. Due to the importance of extreme low flows to contractor, the Department of Water Resources criteria of rounding values were not adhered to. Drainage area is 1.9 square miles.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1975	CO1120	KINGS RIVER, SOUTH FORK, BELOW EMPIRE WEIR #2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0			0		0		0	86	0	21	21	1
2	0			0		0		0	186	0	21	21	2
3	0			0		0		0	206	0	21	21	3
4	0			0		0		0	209	0	7	21	4
5	0			0		0		0	213	0	0	21	5
6	0			15		0		0	192	0	0	13	6
7	0			29		0		0	206	0	54	0	7
8	0			41		0		0	220	0	146	20	8
9	0			50		0		0	222	0	152	45	9
10	0			50		0		0	213	0	149	56	10
11	0			50		0		0	102	13	173	56	11
12	0			47		0		0	19	21	185	56	12
12	0			50	N	0	N	0	6	19	165	56	13
14	7	N	N	52	O	0	O	0	0	6	128	56	14
15	15			37		0		0	0	27	134	56	15
16	15	F	F	19	F	0	F	0	23	37	91	56	16
17	15	L	L	19	L	0	L	10	54	78	0	66	17
18	5	O	O	21	O	0	O	20	54	119	19	73	18
19	0	W	W	13	W	0	W	14	41	122	21	70	19
20	0			34		0		0	31	122	21	59	20
21	0			41		0		0	11	125	21	43	21
22	0			41		0		0	0	131	13	40	22
23	0			41		0		0	0	131	0	37	23
24	0			41		0		0	0	83	41	37	24
25	0			29		0		0	0	0	97	29	25
26	0			0		0		0	0	0	88	28	26
27	0			0		0		0	0	0	66	28	27
28	0			0		0		0	0	0	24	26	28
29	0			0		13		0	14	26	27	29	29
30	0			0		15		0	10	21	22	28	30
21	0			0				0		21	22		21
MEAN	2			23		1		1	77	35	62	39	MEAN
MAX.	15			52		15		20	222	131	185	73	MAX.
MIN.	0			0		0		0	0	0	0	0	MIN.
AC. FT.	113			1440		56		87	4570	2162	3824	2313	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	DISCHARGE	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	GAGE HT	GAGE HT	ACRE FEET
20.1	222	6	0	14565
		9	10	
		Time	Time	
		Daily		

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M O B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CFS	GAGE HT	DATE				FROM	TO	
36 10 48	119 50 00	NW20 20S 20E	4102a		6-12-69	1937-DATE					
Station located 1.0 mile southwest of Stratford. South Fork Kings River, composed of Kings River water, is a tributary to the Tulare Lake area. Records furnished by Kings River Water Association. a Maximum discharge since 1950.											

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C02602	CROSS CREEK BELOW LAKELAND CANAL NO. 2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.													AC. FT.

NO FLOW

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECDRD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE						
36 12 42	119 34 05	NE 10 20S 22E			1921-DATE						

Station located downstream from Cross Creek Weir, 4 miles east of Guernsey. Tributary to Tulare Lake area. At times the flow is a combination of water from Kaweah River, Kings River, and Cottonwood Creek. Records are computed by the use of weir measurements taken at daily intervals and are furnished by the Corcoran Irrigation District.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C03913	FRIANT-KERN CANAL DELIVERY TO PORTER SLOUGH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1					0	5	5	14	12	15	11	5	1
2	0				0	5	5	14	12	16	9	5	2
3	0				0	5	4	14	12	0	9	5	3
4	0				0	5	4	14	17	5	9	11	4
5	0				0	11	4	14	18	5	9	11	5
6	0				0	11	4	15	16	5	12	11	6
7	0				0	11	5	14	13	5	12	11	7
8	0				0	11	5	14	13	8	12	11	8
9	0				0	11	5	14	13	8	12	10	9
10	0				0	14	8	15	11	15	12	10	10
11	0				0	14	6	15	11	16	12	4	11
12	0				0	11	7	12	11	11	9	4	12
13	0	N	N	N	0	12	6	12	16	11	10	4	13
14	5	O	O	O	0	11	6	12	16	11	10	4	14
15	5				0	12	6	12	16	12	10	7	15
16	5	F	F	F	0	11	6	13	16	12	10	7	16
17	5	L	L	L	0	7	6	13	16	12	10	7	17
18	5	O	O	O	0	7	8	13	16	12	10	7	18
19	5	W	W	W	0	7	7	13	16	8	5	7	19
20	5.5				0	6	7	13	16	8	5	6	20
21	0				0	6	7	13	16	8	5	5	21
22	0				0	6	7	13	16	5	8	5	22
23	0				0	3	7	13	16	5	11	6	23
24	0				0	3	10	14	16	5	11	6	24
25	0				0	2.5	8	10	16	5	11	5	25
26	0				0	0	8	10	16	9	11	5	26
27	0				6	0	8	11	15	8	11	5	27
28	0				5	0	8	11	15	15	11	5	28
29	0				0	0	17	11	15	15	5	5	29
30	0				0	0	14	11	16	16	5	5	30
31	0				0	0		12.5		11	5		31
MEAN	1					7	7	13	15	10	9	7	MEAN
MAX.	5.5				6	14	17	15	18	16	12	11	MAX.
MIN.	0				0	0	4	10	11	0	5	4	MIN.
AC. FT.	70				22	412	413	792	879	589	579	395	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN
DISCHARGE
5.7

MAXIMUM				
DISCHARGE	GAGE HT	MO	DAY	TIME
18	.49	6	5	1000

MINIMUM				
DISCHARGE	GAGE HT	MO	DAY	TIME
0				

TOTAL
ACRE FEET
4151

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
36 05 00	119 04 50	SW20 21S 27E				MAY 50-DATE					
These flows are deliveries from Friant-Kern Canal into Porter Slough. Delivery is at the intersection of Porter Slough with the Friant-Kern Canal approximately 4 miles west of Porterville. Records furnished by U. S. Bureau of Reclamation.											

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C03923	FRIANT-KERN CANAL DELIVERY TO TULE RIVER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1					0		0	99	101				1
2					0		0	101	97				2
3					0		0	100	101				3
4					0		0	100	101				4
5					0		0	100	101				5
6					0		0	100	101				6
7					0		0	100	101				7
8					0		0	100	101				8
9					0		0	100	101				9
10					0		0	100	100				10
11					0		0	100	100				11
12					80		0	100	100				12
13	N	N	N	N	79	N	0	99	100	N	N	N	13
14	O	O	O	O	93	O	0	99	100	O	O	O	14
15					94		150	100	100				15
16	F	F	F	F	96	F	150	100	100	F	F	F	16
17	L	L	L	L	95	L	150	100	100	L	L	L	17
18	O	O	O	O	39.5	O	137	100	100	O	O	O	18
19	W	W	W	W	0	W	101	100	100.5	W	W	W	19
20					0		101	100	0				20
21					0		101	100	0				21
22					0		101	101	0				22
23					0		100	101	0				23
24					0		100	101	0				24
25					0		100	101	0				25
26					0		100	101	0				26
27					0		100	101	0				27
28					0		100	101	0				28
29							100	101	0				29
30							100	101	0				30
31								100.5					31
MEAN					19		60	100	64				MEAN
MAX.					96		150	101	101				MAX.
MIN.					0		0	99	0				MIN.
AC. FT.					1143		3552	6164	3790				AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACFE FEET
20.2	154	1.84	4	15	0800	0					14639

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC. T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT.	DATE				FROM	TO	
36 04 25	119 05 15	NW29 21S 27E				MAY 50-DATE					
These flows are deliveries from Friant-Kern Canal into Tule River. Point of delivery is located on the Tule River approximately 4 miles west of Porterville where Friant-Kern Canal crosses the Tule River. Records furnished by U. S. Bureau of Reclamation.											

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C03169	TULE RIVER BELOW PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	0.0	0.0		0.0	97.0 b	87.0 b		0.0		1
2			0.0	0.0	0.0		0.0	97.0 b	83.0 b		0.0		2
3			0.0	0.0	0.0		0.0	93.0 b	87.0 b		0.0		3
4			0.0	0.0	0.0		0.0	93.0 b	80.0 b		0.0		4
5			0.0	0.0	0.0		0.0	90.0 b	80.0 b		1.2		5
6			0.0	0.0	0.0		0.0	87.0 b	78.0 b		122.6 *		6
7			0.0	0.0	0.0		0.0	83.0 b	78.0 b		174.0		7
8			0.0	0.0	0.0		0.0	83.0 b	80.0 b		152.0		8
9			0.0	0.0	0.0		0.0	83.0 b	80.0 b		144.0		9
10			7.2 E	0.0	0.0		0.0	83.0 b	87.0 b		152.0		10
11			49.0 E	0.0	0.0		0.0	87.0 b	83.0 b		148.0		11
12			54.0 #	0.0	63.2 b		0.0	87.0 b	90.0 b		144.0 *		12
13	N	N	49.0	0.0	100.0 a	N	0.0	90.0 b	93.0 b	N	148.0 *	N	13
14	O	O	0.0	8.7	87.0 a	O	0.0	93.0 b	90.0 b	O	152.0	O	14
15			0.0	52.0	60.0 a		65.1 b	93.0 b	83.0 b		132.0		15
16	F	F	0.0	54.0	67.0 a	F	157.0 b	100.0 b	80.0 b	F	123.0	F	16
17	L	L	0.0	54.0	70.0 a	L	165.0 b	103.0 b	80.0 b	L	111.0	L	17
18	O	O	0.0	54.0	40.0 b	O	165.0 b	100.0 b	80.0 b	O	107.0	O	18
19	W	W	0.0	54.0	0.0	W	132.0 b	90.0 b	80.0 b	W	21.7	W	19
20			0.0	54.0 *	0.0		111.0 b	83.0 b	30.5 b		0.0		20
21			0.0	53.0	0.0		107.0 b	90.0 b	0.0		0.0		21
22			0.0	58.0	0.0		100.0 b	83.0 b	0.0		0.0		22
23			0.0	30.0	0.0		100.0 b	83.0 b	0.0		0.0		23
24			0.0	0.0	0.0		97.0 b	87.0 b	0.0		0.0		24
25			0.0	0.0	0.0		93.0 b	87.0 b	0.0		0.0		25
26			0.0	0.0	0.0		97.0 b	90.0 b	0.0		0.0		26
27			0.0	0.0	0.0		100.0 b	90.0 b	0.0		0.0		27
28			0.0	0.0	0.0		97.0 b	93.0 b	0.0		0.0		28
29			0.0	0.0	0.0		90.0 b	93.0 b	0.0		0.0		29
30			0.0	0.0	0.0		93.0 b	90.0 b	0.0		0.0		30
31			0.0	0.0	0.0			90.0 b*			0.0		31
MEAN			5.1	15.4	17.4		59.0	90.0	53.6		59.1		MEAN
MAX.			54.0	58.0	100.0		165.0	103.0	93.0		174.0		MAX.
MIN.			0.0	0.0	0.0		0.0	83.0	0.0		0.0		MIN.
AC. FT.			316	946	966		350*	5536	3192		3635		AC. FT.

a - Includes CVP water
 b - All CVP water
 E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	DISCHARGE	MAXIMUM	DISCHARGE	GAGE HT	MO	DAY	TIME	MINIMUM	DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL
25.0	174.0	1.92	8	7	Mean	Day		0.0						18100

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D S AM	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE				FROM	TO		
36 04 40	119 06 22	NW30 21S 27E	8850	9.27	12-7-66	FEB 57-DATE			1957	1959	0.00	LOCAL
									1959		-3.48	LOCAL

Station located 330 feet upstream from Rockford Road Bridge, 7.1 miles west of Porterville. Flows regulated by Success Reservoir and spill from Friant-Kern Canal. Altitude of gage is approximately 400 feet (from U. S. Geological Survey topographic map). Flows include Central Valley Project releases from Friant-Kern Canal to Tule River. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C03970	CAMPBELL-MORELAND DITCH ABOVE PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	7.8					0.0	0.0	14.2	19.6	18.9	16.5	14.5	1
2	8.4					0.0	0.0	14.2	20.3	18.6	17.2	14.5	2
3	8.1					2.3	0.0	14.8	20.6	17.2	18.2	14.2	3
4	7.5					4.4 *	0.0	15.2	20.3	16.2	18.6	14.2	4
5	7.2					4.7	0.0	15.2	19.6	17.2	18.9	13.9	5
6	7.2					4.2	0.0	14.8	19.6	17.2	19.3	13.2	6
7	7.2					5.7	0.0	14.2	18.9	18.2	18.9	12.9	7
8	7.2					7.2	0.0	13.9	18.9	18.2	18.9	12.2 *	8
9	7.2					7.8	0.0	13.5	18.6	18.9	18.9	11.9	9
10	6.8					7.2	0.0	13.2	18.6	19.6	19.3	11.6	10
11	6.5					8.1	0.0	12.9	18.6	20.0	19.3	11.0	11
12	6.0					11.3	0.0	12.5 *	19.3	20.6	18.9	10.7	12
13	6.2	N	N	N	N	13.2	0.0	16.2	20.0	21.6	18.9	10.0	13
14	6.2	O	O	O	O	13.5 *	4.2 E	18.2	19.6	23.0	18.6	9.0	14
15	6.5					13.2	8.7 E	18.6	19.3	23.8	15.8	8.7	15
16	6.5	F	F	F	F	12.9	9.3	18.6	16.9 *	23.8	14.8	8.4	16
17	6.6	L	L	L	L	12.5	10.0	18.9	18.9	24.2	14.5	9.0	17
18	6.8	O	O	O	O	11.9	10.0	19.6	18.9	24.5	14.8	11.0	18
19	7.2	W	W	W	W	3.6	10.0	19.6 *	18.9	22.0	13.5	12.2	19
20	6.8					0.0	9.6	19.3 E	18.2	19.6	12.5	12.5	20
21	6.5					0.0	9.3	18.9 E	18.2	18.2 *	12.5	13.5	21
22	6.8					0.0	9.0	18.6	17.8	18.2	12.5	13.5 *	22
23	6.0					0.0	10.4 E	17.8	17.8	17.5	12.5	15.2	23
24	9.3					0.0	11.0 E	17.8	18.2	17.5	12.2	17.5	24
25	8.4					0.0	11.3 E	17.8	18.2	17.5	12.2 *	15.2	25
26	7.2					0.0	11.3	18.2	17.2	17.8	12.5	10.4	26
27	7.2					0.0	11.3	18.6	15.8	17.8	12.5	11.6	27
28	4.9					0.0	11.6	18.6	18.9	18.2 *	12.5	13.5	28
29	0.0					0.0	13.5	18.9	18.9	18.2	13.5	14.2 *	29
30	0.0					0.0	14.2	19.3 *	18.6 *	18.2	14.2	13.5	30
31	0.0					0.0		19.3		17.5	14.5		31
MEAN	6.3					4.6	5.8	16.6	18.8	19.4	15.7	12.5	MEAN
MAX.	9.3					13.5	14.2	19.6	20.6	24.5	19.3	17.5	MAX.
MIN.	0.0					0.0	0.0	12.5	15.8	16.2	12.2	8.4	MIN.
AC. FT.	390					285	346	1034	1121	1190	968	741	AC. FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
8.4	24.5	0.0	6075
	GAGE HT	GAGE HT	
	1.10		
	MO	MO	
	7		
	DAY	DAY	
	18		
	TIME	TIME	
	Mean		
	Daily		

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
36 02 48	118 56 54	NW 4 22S 28E				AUG 42-DATE		OCT 62	OCT 62	0.00 -2.00
Station located 3.9 miles southeast of Porterville approximately 2,600 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.										

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1975	C03182	PORTER SLOUGH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	14.1				0.0		0.0	21.4	22.4	22.8	20.0	0.0	1
2	18.2				0.0		0.0	21.4	21.0 *	23.4	15.4	0.0	2
3	17.4				0.0		0.0	21.4	16.4	7.6	12.1	0.0	3
4	18.2				0.0		0.0	8.9	11.8	0.0	13.8 *	0.0	4
5	17.4				0.0		0.0	0.0	13.0	0.0	9.2	0.0	5
6	17.8				0.0		0.0	0.0	16.4	0.0	0.0	0.0	6
7	20.4				0.0		0.0	0.0	18.6	0.0	0.0	0.0	7
8	21.0				0.0		10.0	0.0	17.8	0.0	0.0	0.0	8
9	20.4				0.0		16.8	0.0	12.1	9.8	0.0	0.0	9
10	11.3				0.0		19.0	0.0	0.0	18.2	0.0	22.3	10
11	0.0				0.0		26.2	0.0	0.0	18.6	4.8	31.6 *	11
12	0.0				0.0		27.5	0.0	0.0	20.0	20.0	32.8	12
13	0.0	N	N	N	0.0	N	26.2	0.0	0.0	20.4	24.0 *	28.0	13
14	0.0	O	O	O	38.4 *	O	27.0	0.0	4.4	20.4 *	24.0	24.8	14
15	0.0				63.0		25.1	0.0	17.4	21.4	24.0	24.8	15
16	0.0	F	F	F	50.6	F	23.4	8.8	20.0	21.9	24.0	25.1	16
17	0.0	L	L	L	43.4	L	25.1	25.8	20.4	24.0	24.4	25.1	17
18	0.0	O	O	O	23.8	O	27.0	27.5	21.0	24.0	17.8 *	25.8	18
19	0.0	W	W	W	0.0	W	26.2	28.8 #	21.0 *	24.8	15.8	26.2	19
20	0.0				0.0		25.8	29.4	21.4	24.4	18.6	27.0	20
21	0.0				0.0		25.8	28.0	21.4 E	18.2 *	18.2	26.2	21
22	0.0				0.0		25.8	31.6	21.4 E	14.3	18.2	26.2	22
23	0.0				0.0		26.2	30.4	21.0 E	15.4	20.0	27.5	23
24	0.0				0.0		25.1	26.2	16.4	16.0	20.0	27.5	24
25	0.0				0.0		26.2	26.2	13.8	18.6	8.7	27.5	25
26	0.0				0.0		29.4	25.1	13.8	20.4	0.0	28.0	26
27	0.0				0.0		29.4	21.0	18.2	21.0	0.0	13.1	27
28	0.0				0.0		29.4	20.4	22.4	21.4	0.0	0.0	28
29	0.0				0.0		24.4	20.4	22.4	21.4	0.0	0.0	29
30	0.0				0.0		21.4	21.0	22.4	20.4	0.0	0.0	30
31	0.0				0.0			21.0		20.4	0.0		31
MEAN	5.7				7.8		18.4	15.0	15.7	16.4	11.4	15.6	MEAN
MAX	21.0				63.0		29.4	31.6	22.4	24.8	24.4	32.8	MAX
MIN.	0.0				0.0		0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.	350				436		1127	922	933	1010	700	931	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN
DISCHARGE
8.9

MAXIMUM			
DISCHARGE	GAGE HT	MO	DAY
63.0	2.67	2	15
Mean Daily			

MINIMUM			
DISCHARGE	GAGE HT	MO	DAY
0.0			
Mean Daily			

TOTAL
ACRE FEET
6409

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
36 03 29	118 59 08	SE31 21S 28E				JAN 42-DATE			1957		0.00 LOCAL
Station located at "B" Lane Bridge, immediately east of Porterville. This is regulated diversion from Tule River. Altitude of gage is approximately 465 feet (from U. S. Geological Survey topographic map). Records furnished by the Tule River Association and reviewed by the Department of Water Resources.											

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C03984	PORTER SLOUGH DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.9				0.0		0.0	12.8 *	11.3	18.5	16.1	0.0	1
2	3.2 E				0.0		0.0	9.8	14.3	13.8	10.4	0.0	2
3	3.4				0.0		0.0	9.8	9.6	4.9	4.3	0.0	3
4	3.5				0.0		0.0	6.4	6.5 *	0.0	4.9 *	0.0	4
5	3.5				0.0		0.0	0.0	6.2	0.0	1.9	0.0	5
6	3.5				0.0		0.0	0.0	8.0	0.0	0.3	0.0	6
7	4.4				0.0		0.0	0.0	17.0	0.0	1.0	0.0	7
8	4.6				0.0		0.0	0.0	21.2	0.0	0.0	0.0	8
9	4.6				0.0		0.0	0.0	12.3	0.3	0.0	0.0	9
10	3.2				0.0		0.0	0.0	1.1	6.1	0.0	0.0	10
11	0.0				0.0		4.7	0.0	0.0	7.0	0.0	4.4	11
12	0.0				0.0		10.4	0.0	0.0	7.2	3.0	14.8	12
13	0.0				0.0		10.6	0.0	0.0	7.7	9.9	12.5	13
14	0.0	N	N	N	0.5	N	12.8	0.0	0.0	8.9 *	7.4	8.4	14
15	0.0	O	O	O	2.4	O	12.3	0.0	3.2	9.3	8.6 *	9.5 *	15
16	0.0				2.4		10.5 *	0.0	10.2 *	10.9	10.0	10.7	16
17	0.0	F	F	F	1.7	F	11.4	3.0	10.0	10.2	10.9	12.5	17
18	0.0	L	L	L	1.3	L	13.8	6.8	11.3	9.0	7.9	17.4	18
19	0.0	O	O	O	0.0	O	13.0	5.7	11.4	8.9	4.4	18.1	19
20	0.0	W	W	W	0.0	W	12.3	9.1	12.2	8.4	6.6	19.2	20
21	0.0				0.0		10.9	9.9 *	15.1	8.0 *	6.3	16.6	21
22	0.0				0.0		10.2	10.4	18.7	6.8	6.0	15.1	22
23	0.0				0.0		11.7	9.9	14.8	7.8	7.7	15.7	23
24	0.0				0.0		12.3	8.6	10.7	8.2	8.1	17.9	24
25	0.0				0.0		13.6	8.6	6.6	9.5	4.9	19.4	25
26	0.0				0.0		13.1	10.7	6.5	8.0	0.0	20.4	26
27	0.0				0.0		12.2	7.8	9.4	7.8	0.0	12.6	27
28	0.0				0.0		18.5	7.7	19.0	8.2 *	0.0	0.0	28
29	0.0						19.4	8.8	19.9	8.6	0.0	0.0	29
30	0.0						15.1	9.6 *	21.2	9.6	0.0	0.0	30
31	0.0							7.8		12.3	0.0		31
MEAN	1.1				0.3		8.3	5.3	10.3	7.3	4.5	8.2	MEAN
MAX.	4.6				2.4		19.4	12.8	21.2	18.5	16.1	20.4	MAX.
MIN.	0.0				0.0		0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.	69				16		494	324	611	448	279	486	AC. FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN	DISCHARGE	MAXIMUM	DISCHARGE	GAGE HT	MO	DAY	TIME	MINIMUM	DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL
3.8	21.2	2.91	6	8	Mean	Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2727

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M D S & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 04 06	119 01 06	SE26 21S 27E				JAN 43-DATE		1943		0.00	LOCAL
Station located in Porterville 0.5 mile west of Porterville Post Office, approximately 150 feet downstream from head. This is regulated diversion from Tule River via Porter Slough. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.											

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1975	C03965	VANDALIA DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.5 E							0.0	4.7	5.2	1.8	0.0	1
2	0.5 E							0.0	5.0	4.8 E	0.0	0.0	2
3	0.5 E							0.0	5.7	5.0	0.0	0.0	3
4	0.5 E							0.0	5.9	5.2	0.0	0.0	4
5	0.5 E							0.0	5.8	5.0	0.0	0.0	5
6	0.5 E							0.0	5.7	4.9	4.5	0.0	6
7	0.5 E							0.0	5.4	5.7	5.7	0.0	7
8	0.5 E							0.0	5.3	5.7	5.3	0.0	8
9	0.5 E							0.0	5.0	5.7	5.3	0.0	9
10	0.5 E							0.0	4.8	5.6	5.4	0.0	10
11	0.5 E							0.0	4.7	5.2	5.3 *	0.0	11
12	0.5 E							0.0	4.7	4.9	5.2	0.0	12
13	0.5 E	N	N	N	N	N	N	0.0	5.0	4.9	5.0	0.0	13
14	0.5 E	O	O	O	O	O	O	0.0	5.3	4.8	5.2	0.0	14
15	0.5 E							0.0	5.2	4.8	5.0	0.0	15
16	0.5 E	F	F	F	F	F	F	2.9	5.0	4.8	5.0	0.0	16
17	0.0	L	L	L	L	L	L	4.5	5.3	5.0	4.9	0.0	17
18	0.0	O	O	O	O	O	O	4.1	5.4	5.2	4.8 *	0.0	18
19	0.0	W	W	W	W	W	W	3.6 *	5.6 *	5.3	5.6	0.0	19
20	0.0							3.4	5.6	5.4	0.0	0.0	20
21	0.0							3.3	5.6	5.4 *	0.0	0.0	21
22	0.0							3.6	5.6	5.7	0.0	0.0	22
23	0.0							3.9	5.6	6.1 E	0.0	0.0	23
24	0.0							3.9	5.7	6.4 E	0.0	0.0	24
25	0.0							4.0	5.7	6.7 E	0.0	0.0	25
26	0.0							4.2	5.6	7.3	2.4	0.0	26
27	0.0							4.8	5.6	7.8	7.5 *	3.1	27
28	0.0							4.7	5.4	8.4	3.0	4.4	28
29	0.0							4.6	5.3	9.0	0.0	4.2 *	29
30	0.0							4.6	5.2 *	9.7	0.0	4.2	30
31	0.0							4.6		10.5	0.0		31
MEAN	0.3							2.1	5.3	6.0	2.7	0.5	MEAN
MAX.	0.5							4.8	5.9	10.5	7.5	4.4	MAX.
MIN	0.0							0.0	4.7	4.8	0.0	0.0	MIN.
AC FT	16							128	318	369	166	32	AC FT

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL ACRE FEET
1.4	10.5	1.95	7	31	Mean Daily	0.0					1029

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC. T & R M D S & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
36 03 00	118 58 18	NE 5 22S 28E				1948-DATE			1948		0.00 LOCAL

Station located 2.8 miles southeast of Porterville approximately 1,000 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C03960	POPLAR DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	26.0	0.0	50.0	0.0	0.0	127.4	0.0	33.0	40.0	49.0	123.2	128.6	1
2	37.4	0.0	52.0	0.0	0.0	128.0	0.0	33.0	35.8	45.6	121.4	132.2	2
3	27.7	0.0	52.0	0.0	15.3	127.4	0.0	31.4	27.4	81.8	119.6	136.0	3
4	58.2	0.0	51.0	0.0	15.8	55.2	0.0	29.0	26.2	106.4	120.8	135.4	4
5	67.4	0.0	51.0	0.0	0.0	18.6	0.0	28.3	26.2	107.0	125.6	134.8	5
6	62.2	0.0	50.5	0.0	0.0	19.4	0.0	27.4	26.2	107.0	129.2	132.2	6
7	61.3	0.0	50.0	0.0	0.0	20.7	8.1	28.3	26.2	110.4	130.4	132.6	7
8	61.3	0.0	50.0	0.0	0.0	24.1	14.2	27.0	30.6	114.1	120.2	133.4	8
9	58.0	0.0	46.6	19.2	0.0	26.2	10.8	27.4	33.0	109.0	112.6	132.8	9
10	19.5	0.0	47.0	31.0	0.0	22.9	11.6	29.8	33.9	97.6	115.6	131.0	10
11	0.0	0.0	46.1	32.6	45.8	17.4	10.0	34.0	34.4	100.8	117.0	135.4	11
12	0.0	0.0	46.1	35.2	77.8	18.6	6.2	31.0	35.2	100.8	122.0	136.6	12
13	0.0	0.0	43.4	37.8	77.2	21.0	2.7	29.0	37.5	103.3	126.8	136.0	13
14	0.0	0.0	8.6	39.1	84.6	17.4	7.0	30.2	39.1	104.6	126.8	129.2	14
15	0.0	0.0	0.0	40.6	90.2	16.9	13.7	30.6	38.2	104.0	132.8	131.6	15
16	0.0	0.0	0.0	41.0	96.9	18.1	17.4	29.4	37.0	104.6	132.8	131.6	16
17	0.0	0.0	0.0	40.0	101.4	17.2	28.6	31.0	38.2	113.2	131.6	125.0	17
18	0.0	0.0	0.0	40.0	104.6	16.4	43.9	32.6	39.6	119.6	132.2	129.8	18
19	0.0	0.0	0.0	40.0	108.3	5.2	44.2	32.1	40.0	123.2	128.0	134.2	19
20	0.0	0.0	0.0	39.6	106.4	0.0	42.9	32.1	40.6	120.2	123.8	130.4	20
21	0.0	0.0	0.0	40.6	105.2	0.0	41.9	29.0	41.4	116.2	93.8	130.4	21
22	0.0	0.0	0.0	39.6	105.8	0.0	40.6	25.8	43.4	119.0	89.0	135.4	22
23	0.0	0.0	0.0	34.8	107.0	0.0	40.0	24.1	41.9	125.0	97.6	136.0	23
24	0.0	0.0	0.0	8.2	108.3	0.0	36.1	22.9	41.9	125.6	101.4	137.8	24
25	0.0	20.4	0.0	0.0	114.6	0.0	30.6	25.5	44.2	123.8	102.0	138.4	25
26	0.0	46.6	0.0	0.0	126.2	0.0	28.6	31.8	45.1	119.6	123.2	136.6	26
27	0.0	54.0	0.0	0.0	126.4	0.0	28.3	42.4	47.0	120.2	134.8	134.2	27
28	0.0	52.0	0.0	10.1	126.8	0.0	29.0	42.4	47.0	121.4	137.2	134.2	28
29	0.0	47.0	0.0	6.2	0.0	0.0	31.4	41.0	44.2	122.0	136.0	133.4	29
30	0.0	47.6	0.0	5.4	0.0	0.0	32.1	40.0	47.6	122.6	134.8	133.4	30
31	0.0	0.0	0.0	2.1	0.0	0.0	0.0	40.0	40.0	122.0	135.4	0.0	31
JAN	14.6	8.9	20.7	19.8	66.1	23.2	20.0	31.3	37.6	108.4	121.9	133.3	MEAN
AX	67.4	54.0	52.0	41.0	126.8	128.0	44.2	42.4	47.6	125.6	137.2	138.4	MAX.
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.9	26.2	45.6	89.0	125.0	MIN.
CF	497	531	1278	1156	3669	1424	1190	1925	2240	6664	7493	7932	AC FT

— ESTIMATED
 R — NO RECORD
 — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 — E AND *

MEAN	DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	MINIMUM	DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL
50.3	138.4	3.45	9	25	Mean Daily	0.0	0.0						36399

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	LOCAL
			CF5	GAGE HT	DATE						
36 03 18	119 00 54	SW36 21S 27E			APR 42-DATE			1942	0.00		

Station located 1.0 mile south of Porterville approximately 4,750 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1975	C03925	HUBBS-MINER DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0					0.0	0.0	4.4 E	1.7 E	16.9	7.6	1.0 a	1
2	0.0					0.0	0.0	4.9 #	2.0 E	16.9	6.2	1.0 a	2
3	0.0					0.0	0.0	5.6	6.0	16.9	6.5	1.0 a	3
4	0.0					0.3	0.0	6.2	1.4	14.8	10.2 *	1.0 a	4
5	0.0					3.2	0.0	6.0	7.0	15.6	16.7	1.0 a	5
6	0.0					4.1	0.0	5.7	5.6	15.8	12.3	1.0 a	6
7	0.0					3.9 *	0.0	5.4 E	6.0	8.8	11.3	2.3	7
8	0.0					4.2	0.0	5.5	1.2	10.2	10.4	3.6	8
9	0.0					4.5	3.2	5.2	4.6	9.5 *	10.2	3.4	9
10	0.0					4.5	5.0	5.1	6.6	8.3	10.1	3.6	10
11	0.4					4.2	5.5	4.4	6.5	7.1	8.9 *	5.4 *	11
12	2.3					4.7	2.3	3.3	6.0	6.8	10.2	4.1 E	12
13	6.2	N	N	N	N	4.6	6.2 E	5.3	9.3	7.4	8.4	2.5 a	13
14	6.5	O	O	O	O	5.1	4.7 E	5.4	11.3	7.5	4.2	2.5 a	14
15	5.9					5.2	2.6 E	5.5	11.3	7.8	4.7 *	1.2 a	15
16	4.9	F	F	F	F	4.5	3.6 E	4.8	10.6 *	9.6	6.3	3.0	16
17	0.0	L	L	L	L	2.2	2.1 E	0.0	11.9	7.1	7.0	2.8	17
18	0.0	O	O	O	O	0.0	0.0	1.4	11.9	7.1	7.5	2.3	18
19	0.0	W	W	W	W	0.0	0.0	3.1	12.1	8.3	14.5	2.3	19
20	0.0					0.0	0.0	3.4	12.5	8.9	14.0	2.3	20
21	0.0					0.0	0.0	2.7 *	11.0	11.3 *	10.1	2.3	21
22	0.0					0.0	0.0	1.5	12.3	14.0	6.8	1.2	22
23	0.0					0.0	0.0	0.0	12.3	14.3	5.1	0.0	23
24	0.0					0.0	0.0	0.0	13.3	14.8	5.0	0.0	24
25	0.0					0.0	0.0	0.0	14.5	15.8	5.6 *	0.0	25
26	0.0					0.0	2.6	0.0	16.4	17.2	5.5 E	0.0	26
27	0.0					0.0	3.8	0.0	16.1	17.5	5.6 E	0.0	27
28	0.0					0.0	3.4	0.0	16.4	17.5	5.9	0.0	28
29	0.0					0.0	3.6	0.0	18.2	17.5	5.5 *	0.0	29
30	0.0					0.0	4.4 E	0.0	15.0	14.0 E	2.0	0.0	30
31	0.0					0.0	0.0	0.0		9.7	1.0 a		31
MEAN	0.8					1.8	1.9	3.1	10.0	12.1	7.9	1.7	MEAN
MAX.	6.5					5.2	5.5	6.2	18.2	17.5	16.7	5.4	MAX
MIN.	0.0					0.0	0.0	0.0	1.2	6.8	1.0	0.0	MIN
AC. FT.	52					110	111	191	597	744	485	101	AC FT

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *
 a - Gate leakage

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT	MO	DAY	TIME	MINIMUM DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL ACRE FEET
3.3	18.2	2.40	6	29	Mean Daily	0.0					2391

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & W	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CF5	GAGE HT	DATE						
36 03 27	119 02 02	NW35 21S 27E				DEC 42-DATE		1942	0.00	LOCAL	

Station located 1.1 miles southwest of Porterville, approximately 3,400 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C03948	WOODS-CENTRAL DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	93.0	0.0	88.5	0.0	0.0					0.0	223.0	175.0	1
2	86.6	0.0	88.0 *	0.0	0.0					0.0	213.0	179.0	2
3	73.4	0.0	94.0	0.0	0.0					0.0	224.0	165.0	3
4	55.0	0.0	107.4 E	0.0	0.0					0.0	216.0	164.0	4
5	0.0	0.0	96.9 E	0.0	0.0					0.0	200.0	179.0	5
6	0.0	0.0	97.4 E	0.0	0.0					0.0	209.0 *	189.0	6
7	0.0	0.0	97.9	0.0	0.0					35.6	205.0	170.0	7
8	0.0	0.0	97.4	0.0	0.0					171.0 *	202.0	166.0	8
9	0.0	0.0	77.6	0.0	0.0					190.0	197.0	165.0	9
10	0.0	0.0	33.0	0.0	0.0					189.0	191.0	158.0	10
11	0.0	0.0	46.5	0.0	13.1					173.0	200.0	159.0 *	11
12	0.0	0.0	48.2	5.5	142.1 *					157.0	207.0	172.0 *	12
13	0.0	0.0	45.8	16.4	163.5 a	N	N	N	N	162.0	209.0	174.0	13
14	0.0	0.0	7.6	15.1	146.0 a	O	O	O	O	171.0	192.0	176.0 E	14
15	0.0	0.0	0.0	16.2	124.9 a					170.0	176.0 *	175.0 E	15
16	0.0	0.0	0.0	19.3	126.3 a	F	F	F	F	170.0	164.0	157.0 *	16
17	0.0	0.0	0.0	21.5	127.2 a	L	L	L	L	170.0	160.0	150.0 *	17
18	0.0	0.0	0.0	23.0	120.0	O	O	O	O	164.0	154.0	155.0	18
19	0.0	0.0	0.0	22.5	23.5 E	W	W	W	W	168.0	178.0	157.0	19
20	0.0	0.0	0.0	22.0 *	23.5 E					174.0	185.0	157.0	20
21	0.0	0.0	0.0	19.0	0.0					180.0 *	192.0	148.0	21
22	0.0	0.0	0.0	19.0	0.0					189.0	189.0	134.0 *	22
23	0.0	0.0	0.0	16.2	0.0					199.0	185.0	143.0	23
24	0.0	0.0	0.0	0.0	0.0					201.0	179.0	159.0	24
25	0.0	0.0	0.0	0.0	0.0					201.0 *	178.0 *	166.0	25
26	0.0	7.5	0.0	0.0	0.0					212.0	184.0	175.0	26
27	0.0	71.0	0.0	0.0	0.0					217.0	190.0	173.0	27
28	0.0	80.0	0.0	0.0	0.0					209.0	202.0	179.0	28
29	0.0	91.0	0.0	0.0	0.0					203.0	203.0 *	178.0	29
30	0.0	93.5	0.0	0.0	0.0					208.0	192.0	166.0	30
31	0.0	0.0	0.0	0.0	0.0					217.0	168.0		31
MEAN	9.9	11.4	33.1	7.0	36.1					145.2	192.5	165.4	MEAN
MAX	93.0	93.5	107.4	23.0	163.5					217.0	224.0	189.0	MAX
MIN	0.0	0.0	0.0	0.0	0.0					0.0	154.0	134.0	MIN
AC FT	612	680	2035	428	2004					8927	11835	9844	AC FT

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *
 a - Includes CVP water

MEAN DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL ACRES FEET
50.2	224.0	7.65	8	3	Mean Daily	0.0					36365

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D S & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD	ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
36 04 18	119 05 48	SE30 21S 27E				DEC 42-DATE			1942		0.00 LOCAL

Station located 4.5 miles west of Porterville, approximately 100 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources. This station is sometimes affected by backwater due to CVP water being delivered from the Friant-Kern Canal to Woods-Central Ditch approximately 100 feet downstream from station.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C05150	KERN RIVER NEAR BAKERSFIELD

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1258	624	341	326	498	976	660	1089	1204	1688	1711	844	1
2	1304	622	284	307	553	928	719	989	1277	1658	1655	841	2
3	1194	620	260	273	718	933	771	1008	1334	1559	1772	788	3
4	967	619	338	270	668	970	678	1019	1296	1537	1851	739	4
5	1002	609	458	270	584	1020	683	1015	1259	1593	1819	675	5
6	1120	583	560	285	555	1024	649	917	1310	1634	1776	661	6
7	1051	509	569	279	535	1048	640	889	1339	1624	1673	626	7
8	1028	496	571	295	530	877	610	875	1474	1689	1583	600	8
9	1080	480	550	298	549	864	563	586	1744	1731	1522	574	9
10	1003	479	456	323	573	837	588	775	1844	1698	1563	596	10
11	932	455	403	331	521	705	605	808	1846	1772	1520	630	11
12	916	472	296	348	488	611	560	847	1863	1850	1581	601	12
13	901	515	296	388	499	706	536	959	1814	1832	1652	572	13
14	905	603	305	380	508	714	538	1024	1760	1888	1585	580	14
15	906	643	355	371	497	615	536	1036	1747	1910	1517	560	15
16	900	73	354	371	491	598	551	1053	1781	1903	1665	541	16
17	917	753	348	344	488	582	564	999	1759	1779	1700	542	17
18	945	742	352	375	499	560	546	919	1718	1767	1726	516	18
19	941	697	352	357	549	586	543	903	1735	1785	1589	510	19
20	923	708	393	349	641	596	544	873	1714	1778	1451	511	20
21	887	736	374	351	658	600	521	845	1696	1760	1405	538	21
22	646	697	378	345	680	613	521	835	1701	1770	1283	562	22
23	640	686	373	371	730	604	529	836	1692	1787	1217	539	23
24	640	672	362	367	797	595	614	807	1616	1842	1220	494	24
25	631	696	312	366	835	641	628	803	1558	1868	1169	470	25
26	628	705	311	372	902	718	713	868	1561	1896	1190	454	26
27	623	708	325	375	992	657	774	945	1590	1922	1187	408	27
28	645	700	360	371	1029	644	852	1040	1557	1873	1091	399	28
29	635	668	357	367	637	997	1069	1069	1575	1830	887	416	29
30	622	469	343	405	622	622	1129	1065	1602	1817	831	423	30
31	619		329	469	627	627		1113		1820	832		31
MEAN	884	623	376	345	627	733	646	929	1600	1772	1459	574	MEAN
MAX.	1317	826	573	496	1130	1104	1138	1145	1883	1948	1860	883	MAX.
MIN.	595	372	232	251	485	514	482	381	1184	1503	816	392	MIN.
AC. FT.	54365	37085	23137	21221	34844	45041	38444	57142	95197	108932	89738	34139	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
883	1948		7			232					639285

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R MOD. B.M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM TO	ZERO ON GAGE	Mean	REF DATUM
			CFS	GAGE NT	DATE						
35 25 9	118 56 8	SW 2 29S 28E	36000 92908	461.37 454.94	11-19-50 12-6-66	1893-DATE			0.0 0.0	Mean	sea level

Also known as "Kern River at First Point". Station located 5.8 miles northeast of Bakersfield. Tabulated discharge is the regulated flow and is computed from noon to noon beginning at noon of day shown. Records furnished by Kern County Canal and Water Company. Drainage area is 2,407 square miles.

^a Maximum flow since construction of Isabella Dam in 1954.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1975	C05180	KERN RIVER AT SECOND POINT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0.0	34	209	8	413	255	573	577		1
2				0.0	39	163	6	359	301	591	530		2
3				0.0	108	125	19	364	353	558	520		3
4				0.0	228	139	19	367	371	574	526		4
5				0.0	211	165	19	359	396	573	555		5
6				0.0	200	178	17	296	492	573	572		6
7				0.0	187	175	16	171	494	564	571		7
8				0.0	181	139	15	158	480	564	544		8
9				0.0	184	74	10	133	511	607	586		9
10				0.0	211	77	8	93	527	609	420		10
11				0.0	221	66	17	188	566	609	409		11
12				0.0	184	25	17	167	686	636	394		12
13	N	N	N	0.0	203	34	14	178	741	657	378	N	13
14	O	O	O	0.0	213	42	1	196	737	691	434	O	14
15	O			0.0	210	25	16	198	652	692	446		15
16	F	F	F	0.0	199	18	23	226	650	695	401	F	16
17	L	L	L	0.0	195	9	27	215	631	668	375	L	17
18	O	O	O	0.0	188	11	39	184	617	645	350	O	18
19	W	W	W	0.0	185	2	47	154	605	716	365	W	19
20				0.0	197	5	54	182	601	759	356		20
21				0.0	195	5	48	196	609	702	287		21
22				0.0	189	4	35	200	632	646	255		22
23				0.0	186	8	38	196	628	592	233		23
24				0.0	206	10	64	198	617	570	175		24
25				0.0	210	6	91	215	596	594	130		25
26				0.0	212	6	131	192	552	585	105		26
27				0.0	210	5	202	187	514	614	93		27
28				0.0	204	5	230	199	526	624	97		28
29				0.0		4	270	222	524	603	96		29
30				0.0		6	352	208	548	599	50		30
31				23.0		12		215		594	0		31
MEAN				1	185	56.5	61.8	220	547	622	346		MEAN
MAX				23	228	209	352	413	741	759	577		MAX
MIN				0.0	34	2	1	93	255	558	0.0		MIN.
AC. FT				46	10294	3475	3675	13545	32553	38235	21283		AC. FT

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
170	759	0	123106
	GAGE HT	GAGE HT	
	7	10	
	20	1	
	TIME	TIME	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
35 18 02	119 15 25	SE23 30S 25E									

Station located 0.5 mile west of Highway 43 on Kern River. Records furnished by Buena Vista Water Storage District. Tabulated discharge is the regulated flow.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C07115	AVENAL CREEK AT HIGHWAY 33

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN MAX MIN AC FT													MEAN MAX MIN AC FT

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
35 43 50	119 59 35	36-24S-18E						1974			Local
Station located on upstream side of bridge over Avenal Creek, 7.6 miles south of Highways 41 and 33 intersection. There are no upstream reservoirs. Drainage area is 149 square miles.											

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1975	C07120	BUENA VISTA CREEK NEAR TAFT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN MAX. MIN. AC. FT.													MEAN MAX. MIN. AC. FT.

INSUFFICIENT DATA TO PUBLISH

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT	DATE						
35 12 21	119 24 35	NW28 31S 24E		2.9	8-14-65		NOV 64-DATE	1964		0.00	LOCAL

Station located at State Highway 119 bridge immediately southwest of Valley Acres, 5.7 miles northeast of Taft. Tributary to Buena Vista Lake. Recorder installed 11-10-64. Altitude of gage is approximately 425 feet (from topographic map).

DIVERSIONS

Diversion data formerly collected by the Department of Water Resources for the Stanislaus, Tuolumne, Merced, and San Joaquin Rivers and Dry Creek near Modesto have been discontinued. The last publication of such diversion data was in Bulletin 130-70.

The diversion data shown in Tables B-4 through B-8 have been furnished by the U. S. Bureau of Reclamation, City and County of San Francisco, local agencies including irrigation and water districts, and the Department's Division of Operations and Maintenance. Figures shown are monthly and annual acre-feet amounts of water diverted from the San Joaquin River, deliveries from project canals, deliveries to irrigation districts, and imports to and exports from the San Joaquin Valley.

The diversion data are published as received without rounding according to criteria normally used by the Department.

TABLE B-4

DIVERSIONS - SAN JOAQUIN RIVER
Fremont Ford Bridge to Gravelly Ford
October 1974 through September 1975

WATER USER	MILE AND BANK ABOUT MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE- FEET
			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE	124.5														
--GAGING STATION - SAN JOAQUIN RIVER NEAR STEVENS	131.7														
--GAGING STATION - SAN JOAQUIN RIVER NEAR LOS PALOS	180.0														
San Luis Canal Company	184.6 L	Grav. 12	9495	6333*		726	3929	1270*	13201	2112*	26781*	2900*	27676	18561	169711
--FIREBAUGH BRIDGE	198.4														
--GAGING STATION - SAN JOAQUIN RIVER NEAR MENDOTA															
--MENDOTA DAM	204.6														
Central California Irrigation District	208.8 L	Grav. 12	2220*	6681*		7145	1536*	3276*	4488*	6271*	77494*	8316*	80742*	4110*	491234*
--FRESNO SLOUGH	209.0 L														
--DELTA-MENDOTA CANAL	210.21														
Firebaugh Canal Company	210.4L		126*	204		4471	3192	209	6682	8462	1162	7252	6822	275*	49862
M. Jensen															
Dudley, et al. (Marchini Bros)	213.41					173	34*	17*	13*	3*	29*	26*	21*	2*	1798
State of California - Mendota Waterfowl Management	216.45+8.20		4784	1668		108*	541	484	484	1231	2634	223*	2795	4445	22549
Fresno Slough Water District	219.20+10.50					262	63*	7*	44*	31*	44*	65*	65*	10*	3769
--JAMES BYPASS	211.80P														
Mason A. Lowry (Traction Ranch)	210.76			2		54	339	348	45*	393	641	772	1012	58*	4769
Reclamation District 1000	211.50					49	73	0	81	0	221	161	212	6	802
James Irrigation District	214.41					288	5668	714	5032	5756	8221	6739	7622	1862	47042
Tranquillity Irrigation District	212.00+13.75					2541	4760	528	1216	2632	5760	744*	6393	2583	33919
Melvin D. Hughes	212.20						0	12		12	14	1*		12	66
--LONE WILLOW SLOUGH	219.8 P														
Columbia Canal Company	219.8 P		432*	862		156*	397*	352*	477*	322*	899*	963*	929*	663*	61740
State Center Land Company	211.4														0
M. Beck	211.8		31	24							18	25			73
Tulle Gun Club	211.8											10	1*		30
Westlands Water District	211.4						224*	2862	2309	252*	436	446*	3142	0	21755
Grasslands	210.2		2846											12454	39328
T. W. Wilson						54	85	0	54		103	74	161	3*	56*
Laguna Water District											200	200	15*	8*	680
Tranquillity Gun Club												84			80
Cole Gun Club															120
Patos Unlimited	210.4											104			212
120 Duck Club	210.4														120
Pacheco Water District	210.4														200
Mercy Springs Water District											70*	70*	70*		2100
--SAN JOAQUIN RIVER AT CHOWCHILLA BYPASS	219.83														
--GRAVELLY FORD CANAL	212.8 R														
FREMONT FORD BRIDGE TO GRAVELLY FORD															
Total			66340	1841*		1639*	3550*	482*	4482*	11420*	14421*	14164*	11998*	6441*	905550
Average cubic feet per second			1089	309		249	619	80*	142*	186*	227*	237*	227*	154*	1251
Monthly use in percent of seasonal			7.4	2.0		2.3	3.9	0.2	0.4	1.2	1.4	1.6	1.5	0.9	100.0

Records for this reach furnished by the U. S. Bureau of Reclamation and the Contracting Entities, and do not include operational spill. Acre-foot values are published as received and not rounded to the criteria used by the Department of Water Resources.

- a. Includes purchased and transferred water.
- b. Total does not include Central California Irrigation District deliveries from the Delta-Mendota Canal.
- c. Plant is located on Fresno Slough which diverts from the San Joaquin River at mile 209.0 L. Distance from the San Joaquin River and bank of slough on which diversion is located are shown in parentheses.
- d. Plant is located on James Bypass which diverts from Fresno Slough at mile 11.80 R. Distance from Fresno Slough and bank locations of diversions are shown in parentheses.
- e. One 6-inch pump located on arm of slough at SW corner of S. 12, T. 14S, R. 13E.
- f. One 8-inch pump located on arm of slough 1400 feet S of NW corner, S. 24, T. 14S, R. 13E.
- g. One 8-inch pump located on arm of slough adjacent to M. Beck.
- h. Total does not include deliveries under separate agreement by San Luis Water District.

TABLE B-5

DIVERSION AND WHEELS DELIVERED - 1953-54 Season - All Wells Pumped
 OCT 1953 TO OCT 1954

WATER USER	DIVERSION												ACREAGE IRRIGATED	
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	TOTAL	GENERAL RICE
<u>Pratt-Penn Canal</u>														
a. 1,100 acre-feet diverted														
b. 1,100 acre-feet per second														
c. Monthly use in percent of seasonal														
d. 1,100 acre-feet diverted														
e. 1,100 acre-feet per second														
f. Monthly use in percent of seasonal														
<u>Madera Canal</u>														
g. 1,100 acre-feet diverted														
h. 1,100 acre-feet per second														
i. Monthly use in percent of seasonal														
<u>Morgan Irrigation District</u>														
j. 1,100 acre-feet diverted														
k. 1,100 acre-feet per second														
l. Monthly use in percent of seasonal														
<u>Turnlock Irrigation District</u>														
m. 1,100 acre-feet diverted														
n. 1,100 acre-feet per second														
o. Monthly use in percent of seasonal														
<u>Modesto Irrigation District</u>														
p. 1,100 acre-feet diverted														
q. 1,100 acre-feet per second														
r. Monthly use in percent of seasonal														
<u>Materford Irrigation District</u>														
s. 1,100 acre-feet diverted														
t. 1,100 acre-feet per second														
u. Monthly use in percent of seasonal														
<u>Oakdale Irrigation District</u>														
v. 1,100 acre-feet diverted														
w. 1,100 acre-feet per second														
x. Monthly use in percent of seasonal														
<u>South San Joaquin Irrigation District</u>														
y. 1,100 acre-feet diverted														
z. 1,100 acre-feet per second														
aa. Monthly use in percent of seasonal														

a. Data for Madera and Pratt-Penn Canals received from U. S. Bureau of Reclamation. All other data from individual irrigation districts and published as received.

b. An additional 1,100 acre-feet of water was pumped from wells.

c. Of this acreage, 1,301 were double cropped. Double-croping is an undetermined amount of riparian water users' acreage.

d. An additional 120,000 acre-feet of water was pumped from wells.

e. Of this acreage, 41,605 were double cropped.

f. An additional 37,000 acre-feet of water was pumped from wells.

g. Of this acreage, 1,141 were double cropped.

h. An additional 120,000 acre-feet of water was pumped from wells.

i. Of this acreage, 41,605 were double cropped.

j. An additional 120,000 acre-feet of water was pumped from wells.

k. Of this acreage, 41,605 were double cropped.

l. An additional 37,000 acre-feet of water was pumped from wells.

m. Of this acreage, 1,141 were double cropped.

n. An additional 120,000 acre-feet of water was pumped from wells.

o. Of this acreage, 41,605 were double cropped.

TABLE B-6
DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
October 1974 through September 1975

WATER USER	MILE POST FROM CANAL HEAD		MONTHLY DELIVERIES IN ACRE- FEET												TOTAL
	FROM	TO	OCT	NOV	DEC.	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
Delta-Mendota Canal															
Plain View Water District	4.22	20.96	493	1			1	432	2022	4047	3564	3587	3450	2026	19617
The Westside Irrigation District	14.79		25	0			0	0	283	3004	1842	3025	3075	451	11705
Hospital Water District	18.05	30.96	987	19	0	276	559	900	3048	4296	6516	5988	5054	2980	31625
Banta-Carbena Irrigation District	20.42		243	0		144	331	298	0	4353	1353	1308	3294	805	12129
Kern Canon Water District	31.31	35.18	233	66	0	52	167	149	877	1230	1723	1451	1296	615	7859
West Stanislaus Irrigation District	31.31	38.14	0	0	0	6	0	613	2502	8016	6707	8779	7333	193	36149
Del Puerto Water District	35.73	42.51	413	9	0	95	125	336	1615	2717	3815	2759	2420	1324	15626
Salado Water District	42.10	46.85	0	0	0	0	46	358	1425	2701	2100	2091	1347	369	10437
Patterson Water District	42.51		38	0	0	44	59	400	707	1741	1639	739	1134	216	6722
Sunflower Water District	44.22	52.02	86	0	0	68	101	914	2084	2771	3323	2494	2114	865	14820
Orestimba Water District	46.83	51.41	77	0		343	90	441	2938	3908	2879	4494	2979	1012	19161
Footnall Water District	51.65	57.46	532	0	0		210	501	1133	1971	2193	2025	1972	1353	11890
Davis Water District	53.64	56.62	143	0		159	72	74	674	881	911	1091	671	431	5109
Mustang Water District	56.80	62.67	153	42	0	107	38	263	1256	2614	2658	3261	2896	1155	14445
Central California Irrigation District	58.26	76.06	130	36	0	179	308	734	4111	10622	12334	12973	11125	2544	55098
Quinto Water District	64.32	67.51	59	18	0		0	110	732	1251	1293	1212	1330	496	6494
Centinella Water District	66.20		248	2	0	0	0	3	197	453	661	612	539	374	3125
Romero Water District	66.70	68.03	71	0	0	0	0	45	647	651	307	713	937	606	3977
San Luis Water District, Municipal and Industrial	69.21		12	1	0	1	1	0	9	19	18	23	20	16	117
San Luis Water District	69.21	90.53	2850	579	0	3328	7384	4761	10262	11712	13086	12855	11497	5333	83687
William Affonso	80.03		0	0	0	0	0	0	82	0	48	55	65	0	250
Grassland Water District	70.00	116.18	1977	0	0	0	0	0	0	0	0	0	0	5076	18671
Pacheco Water District	90.52		0	0	0	0	0	0	0	0	1336	1968	1158	280	4742
San Hamburg Farms	90.53		0	2	0	1	2	2	2	4	4	4	5	4	30
Panoche Water District	93.25	96.78	4189	2127	0	3192	3572	6124	7678	7439	11153	11303	8054	2106	69433
Eagle Field Water District	93.27	94.57	107	0	0	97	481	328	147	1010	562	766	927	481	4910
Oro Loma Water District	95.50	96.62	75	0	0	0	0	0	652	1182	1250	1240	1213	125	5737
West Side Golf Club	95.95		15	0	0	4	5	8	12	20	25	24	26	22	178
Mercy Springs Water District	97.70	99.81	47	0	0	0	0	0	880	2215	2274	2323	2199	244	10102
Panoche Water District, Municipal and Industrial	100.84		1	1	0	1	1	1	1	1	1	1	1	1	11
Midren Water District	102.03		0	0	0	0	0	0	203	331	176	168	184	15	1074
Broadview Water District	102.95		264	1223	0	1989	632	3228	1252	1110	3040	2986	1228	307	16851
Firebaugh Canal Company	109.45		0	0	0	301	196	0	1238	5877	6796	7472	7148	262	29290
State Fish and Game Salmon Run			0	0	0	0	0	0	0	0	0	0	0	0	
San Luis Drain	111.03		162	48	0	71	12	12	176	92	121	123	92	84	999
Total			23258	6154	6	10455	14396	23066	44745	89781	97708	98510	86791	32174	532069
Net Deliveries DMC to Mendota Pool			77220	16778	0	33924	46653	61072	99614	133446	158444	170755	161379	102037	1060060
Net Deliveries DMC to O'Neill Forebay			115470	14248	0	109578	176715	159437	106934	21507	79945	24619	42947	88621	812537
Madera Canal															
Buchanan Dam			0	0	34	0	0	0	0	0	0	0	0	0	34
Midden Dam			0	0	61	0	0	0	0	0	0	0	0	0	61
Madera Irrigation District	6.10	32.2	0	0	0	0	6900	12546	19076	33626	43615	46860	27233	18	188860
Adobe Ranch	20.4		85	60	56	0	0	0	0	0	0	84	71	60	441
Crowchilla Water District	35.4		1002	0	0	0	1400	3316	6815	23718	24773	26271	24336	12456	129677
Total			1087	60	171	0	8300	15662	24893	57246	72276	75220	61640	12554	8119311
Millerton Lake															
Fresno County Water Works and County of Madera			8	4	2	2	4	5	7	14	14	2	18	13	116
			3	4	1	2	1	2	3	3	3	3	2	2	24
Total			11	8	3	4	5	7	10	17	22	23	20	1	140

TABLE B-6 (Cont.)

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
October 1974 through September 1975

WATER USER	MILE POST FROM CANAL HEAD FROM TO	MONTHLY DELIVERIES IN ACRE- FEET												TOTAL	
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT		
Frisant-McKen Canal															
Garfield Water District	7.53	176	21			172	117	391	532	567	640	513	274	3403	
International Water District	14.9	137	0	0	0	0	27	37	148	192	285	247	229	1290	
Round Mountain Ranch	20.22	0	0	0	0	0	0	0	0	0	0	0	0	34	
Consolidated Irrigation District	28.50	0	0	0	0	0	0	0	0	0	0	0	0	0	
Laguna Irrigation District	28.50	0	0	0	0	0	0	0	0	0	0	0	0	0	
Liberty Water District	28.50	0	0	0	0	0	0	0	0	0	0	0	0	0	
Corcoran Irrigation District	28.50	0	0	0	0	0	0	0	0	0	0	0	0	0	
Stratford Irrigation District	28.50	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tulare Lake Basin Water Storage District	28.50 & 45.64	0	0	0	0	0	0	0	0	0	0	0	0	0	
Alta Irrigation District	28.50	0	0	0	0	0	0	0	0	0	0	0	0	0	
City of Fresno	25.51	0	0	0	0	0	0	0	0	11000	12000			23000	
Fresno Irrigation District	25.51 & 28.50	11	0	0	0	3124	7025	10724	17082	6028	11357	7562	15272	74199	
Murphy Slough Association	28.50	0	0	0	0	0	0	0	0	0	0	0	0	0	
Empire Westside Irrigation District	28.50	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kings County Water District	28.50 & 71.29	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hills Valley Irrigation District	41.12	0	0	0	0	0	0	0	27	0	0	0	0	27	
Orange Cove Irrigation District	35.87	53.31	2573	11	0	0	0	548	5002	6324	7390	7902	5927	37492	
City of Orange Cove	43.44	58	10	0	0	0	29	43	61	49	52	75	62	474	
Stone Corral Irrigation District	56.90	64.40	429	0	0	0	83	725	1363	1512	1735	1764	1270	8804	
Ivanhoe Irrigation District	55.94	68.13	1250	6	0	0	147	0	249	1791	1879	2987	2575	1814	12049
Tulare Irrigation District	68.14	71.29	701	3	0	0	24341	0	31886	55438	26217	24144	10396	13011	186004
Lakeside Irrigation District	69.42	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kaweah Delta Water Conservation District	69.08	71.29	0	0	0	0	0	0	0	0	0	0	0	0	
Exeter Irrigation District	72.12	79.24	626	8	0	0	44	144	0	0	0	0	0	1876	
Lewis Creek Water District	81.54	84	0	0	0	0	0	0	0	0	0	0	0	1201	
Lindsay-Strathmore Irrigation District	85.56	2459	173	0	0	0	0	0	0	0	1970	4614	4134	13349	
Lindmore Irrigation District	86.17	91.12	2717	39	0	0	463	1507	2511	7227	4598	9831	9666	7117	50164
Porterville Irrigation District	93.93	98.62	0	0	0	0	0	2174	2277	3742	3685	3377	5340	2434	23657
Lower Tule Irrigation District	95.67	98.62	12406	9603	0	0	17565	11762	2013	37377	42113	36127	22066	17837	222986
Tea Pot Dome	99.35	455	13	0	0	0	12	21	13	677	847	883	927	74	4627
Saucelito Irrigation District	98.62	107.37	809	52	0	0	2127	4158	4491	9107	6403	7693	6661	3199	42230
Terra Bella Irrigation District	102.65	1619	0	0	0	0	165	431	1115	3346	3751	3669	3122	19208	
Pixley Irrigation District	102.65	1399	469	0	0	0	0	1039	4641	2220	0	0	0	10011	
Delano-Earlhart Irrigation District	109.48	118.47	6849	2703	0	0	6065	18720	17749	21277	24775	37183	24777	11557	167147
Alpaugh Irrigation District	112.46	0	0	0	0	0	0	0	0	0	0	0	0	0	
Southern San Joaquin Municipal Utility District	117.44	127.37	4374	1543	207	0	5173	17446	11807	16348	22566	26762	23806	11333	136674
Rag Gulch Water District	117.96	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kern County Water Agency	130.03	0	0	0	0	0	0	0	0	0	0	0	0	0	
Shafter-Wasco Irrigation District	134.42	137.17	2345	646	346	0	4532	6257	5917	6183	10655	13436	11764	6207	72800
Rosedale Rio Bravo Water Storage District	151.81	0	0	0	0	0	0	0	0	0	0	0	0	0	
Buena Vista Water Storage District	151.81	0	0	0	0	0	0	0	0	0	0	0	0	0	
Arvin-Edison Water Storage District	151.80	2857	624	1878	0	11514	13298	24758	36825	36137	31276	13770	12504	194209	
Styrotek, Inc.	116.40	44	28	0	0	0	32	31	25	20	17	57	33	44	331
Total		44561	21016	2111	3138	7670	76011	145658	244774	214774	223411	31777	111724	133	

Data furnished by U. S. Bureau of Reclamation. Acre-foot values are published as rounded to the nearest acre-foot. The Department of Water Resources. Deliveries do not include operational spill.

a Includes construction water for Hadden and Buchanan Dams.

TABLE B-7

DELIVERIES FROM CALIFORNIA AQUEDUCT^a
October 1974 through September 1975

WATER USER	IN ACRE FEET												TOTAL
	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
Delta Pumping Plant (Inflow to California Aqueduct)	62156	110990	170760	166859	135353	136998	117506	93428	12292	16497	253545	233444	1509828
North San Joaquin Division													
South Bay Pumping Plant	8057	8497	9376	9533	10177	3500	4260	11174	12506	14589	13860	9637	115160
Oak Flat Water District	60	81	21	49	79	11	67	1860	138	1496	1209	303	7266
Tracy Golf & Country Club	6	0	0	0	0	0	0	0	0	0	0	0	6
Total	8121	8578	9397	9582	10256	3511	5027	12977	13893	16085	15069	9934	122432
California Aqueduct at Check 12 (Inflow to San Luis Field Division)	13261	192736	161144	157217	124969	133010	112399	79502	211	700	243971	223154	1382274
O'Neill Forebay ^b													
San Luis Water District	236	99	25	300	361	607	1073	1396	1332	1324	971	375	8099
San Luis Division ^b													
San Luis Water District	179	496	774	1238	435	308	814	1257	1796	2719	1597	647	12392
Panoche Water District	410	733	1652	4662	4406	5654	3841	2741	4493	7658	6052	1799	44301
Westlands Water District ^c	27320	29071	50015	122724	113015	114657	111686	118062	173549	174146	148937	51093	1234247
City of Huron	49	0	0	14	25	30	31	52	--	83	72	62	495
Avenal Community Service District	41	27	19	28	21	24	27	64	79	85	85	71	571
Total	27929	10329	52660	128664	117902	12073	116401	122176	179996	164691	156713	93670	1292006
South San Joaquin Division													
Tulare Lake Basin Water Storage District	2161	12420	22446	38308	11910	10139	20074	7972	3491	18671	25255	16008	201202
Empire Westside Irrigation District	161	649	491	663	511	573	596	336	583	767	976	293	6528
Finco County	166	0	165	175	175	175	25	0	175	175	175	175	1580
Dudley Ridge Water District	1009	2534	2166	2586	5373	7820	8143	7979	10074	12430	12454	5421	80356
Hacienda Water District	1794	0	0	586	419	623	1600	1441	500	487	800	800	8952
Kern County Water Agency	11914	11496	12073	20791	44683	61500	47457	69449	102555	117873	118136	43174	670687
Boswell Farms ^d	0	0	0	0	0	0	0	0	0	0	0	0	0
Buena Vista Water Storage District ^e	0	0	0	1467	2062	410	413	370	460	500	500	200	6397
USBR - Fish and Wildlife	0	0	0	0	0	0	0	0	0	0	0	0	2222
Total	26176	17736	37945	66874	69033	81240	76145	87147	117946	150693	156300	66291	977924
Coastal Branch													
Denila's Den Water District	0	0	927	1690	2340	2476	1103	446	980	2619	2596	694	16871
Perr County Water Agency	1732	2709	1103	5292	8642	9404	10454	15173	17234	21785	19873	5213	119073
Green Valley Water District	0	0	0	0	0	0	0	0	494	556	609	644	2217
Total	2732	2596	2029	6982	11022	11912	12557	15673	18712	28794	27159	5950	138161

Data furnished by the Division of Operations and Maintenance.

^a Entitlement to surplus water has been combined in this table and does not include operational losses.

^b Deliveries made by U. S. Bureau of Reclamation.

^c Includes construction water and delivery to City of Coalinga.

^d Repayment of Preconsolidation water.

TABLE B-8

IMPORTS AND EXPORTS

October 1974 through September 1975

WATER USER	IN ACRE FEET												TOTAL
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	

Data for Delta-Mendota Canal furnished by U. S. Bureau of Reclamation. Data for Tuolumne River exports furnished by City and County of San Francisco. Data for California Aqueduct furnished by Department of Water Resources, Division of Operations and Maintenance. Acre-feet values are published as received and not rounded to the criteria normally used by the Department of Water Resources.

(a) Water pumped at Delta Pumping Plant less deliveries to South Bay Aqueduct, Oak Flat Water District.

(b) Water pumped by South Bay Aqueduct exceeds amount pumped by Delta Pumping Plant. Assumed excess water taken from Aqueduct Storage.

(c) Exports from Tuolumne River.

(d) Deliveries to Southern California.

DAILY MEAN GAGE HEIGHTS

Presented in Table B-9 are records of daily mean gage heights for key stations on major streams in the San Joaquin Valley for the 1974-75 water year.

At the bottom of the stage tables are shown the major river crests occurring for the 1974-75 water year. The table also shows the location of the station, maximum gage height of record, period of record, and datum of gage. The elevation of water surface at the gaging station is obtained by adding the gage height reading to the elevation of the gage datum presented in each table. Gage height for stage tables is computed from recorder charts and is reported to one-hundredth of a foot.

TABLE B-9

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1975	C03110	TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
30 03 10	119 49 35			196.8	6-28-41		FEB 37-DATE	1937		0.00 USC&S

Station located 2.2 miles southwest of Chatom Ranch, 6 miles southwest of Corcoran on south end of El Rico Bridge. Tulare Lake receives water from Kings, Kaweah, and Tule Rivers during high-water periods and occasionally from Kern River, Deer Creek, and several small intermittent streams. Elevation at lowest point of lake bed is now about 175 feet, U. S. Geological Survey datum. Records furnished by Tulare Lake Basin Water Storage District and the Boswell Company.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1975	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.18	2.06	1.81	1.90	1.96	1.93	2.09	2.50	2.48	2.53	2.61	2.27	1
2	2.15	2.06	1.81	1.90	1.99	1.93	2.09	2.52	2.49	2.52	2.54	2.26	2
3	2.12	2.06	1.84	1.90	1.96	1.93	2.10	2.51	2.50	2.52	2.54	2.26	3
4	2.07	2.03	1.84	1.91	1.94	1.93	2.10	2.51	2.52	2.51	2.53	2.26	4
5	2.08	1.98	1.83	1.91	1.97	1.94	2.17	2.51	2.52	2.52	2.53	2.26	5
6	2.08	1.96	1.82	1.92	1.99	2.04	2.27	2.50	2.60	2.53	2.52	2.26	6
7	2.08	1.98	1.83	1.92	2.09	1.99	2.16	2.49	2.60	2.52	2.51	2.25	7
8	2.08	1.91	1.84	1.95	2.09	1.99	2.13	2.50	2.59	2.51	2.51	2.25	8
9	2.07	1.75	1.84	1.93	2.09	1.98	2.11	2.50	2.60	2.52	2.51	2.25	9
10	2.08	1.74	1.84	1.92	2.19	1.99	2.09	2.50	2.57	2.50	2.50	2.26	10
11	2.07	1.74	1.84	1.92	2.11	2.06	2.09	2.50	2.56	2.46	2.49	2.24	11
12	2.07	1.74	1.85	1.92	2.10	2.02	2.08	2.50	2.57	2.46	2.49	2.23	12
13	2.07	1.74	1.86	1.92	2.11	2.07	2.06	2.51	2.57	2.45	2.49	2.23	13
14	2.07	1.75	1.86	1.92	2.09	2.22	2.06	2.52	2.58	2.45	2.43	2.23	14
15	2.06	1.76	1.87	1.92	1.99	2.10	2.09	2.52	2.56	2.45	2.36	2.19	15
16	2.06	1.77	1.87	1.92	1.95	2.12	2.09	2.52	2.53	2.45	2.35	2.16	16
17	2.06	1.77	1.87	1.92	1.93	2.12	2.09	2.54	2.54	2.45	2.35	2.16	17
18	2.06	1.76	1.86	1.93	1.92	2.08	2.08	2.54	2.54	2.44	2.35	2.17	18
19	2.06	1.76	1.86	1.93	1.93	2.08	2.09	2.53	2.55	2.44	2.35	2.17	19
20	2.07	1.76	1.87	1.93	1.94	2.07	2.05	2.53	2.54	2.44	2.34	2.17	20
21	2.07	1.78	1.87	1.93	1.94	2.08	2.08	2.52	2.54	2.43	2.33	2.17	21
22	2.09	1.79	1.87	1.93	1.93	2.43	2.03	2.48	2.54	2.44	2.32	2.17	22
23	2.11	1.78	1.87	1.93	1.93	2.23	2.30	2.47	2.54	2.43	2.28	2.17	23
24	2.12	1.78	1.88	1.93	1.94	2.15	2.62	2.47	2.54	2.50	2.29	2.17	24
25	2.12	1.78	1.88	1.93	1.95	2.23	2.62	2.46	2.54	2.60	2.30	2.17	25
26	2.13	1.79	1.89	1.94	1.95	2.24	2.44	2.45	2.54	2.60	2.30	2.16	26
27	2.13	1.79	1.89	1.94	1.95	2.17	2.30	2.45	2.54	2.64	2.30	2.19	27
28	2.15	1.79	1.90	1.94	1.95	2.15	2.29	2.46	2.54	2.69	2.30	2.24	28
29	2.14	1.80	1.90	1.95	1.95	2.13	2.38	2.46	2.54	2.69	2.31	2.24	29
30	2.14	1.80	1.90	1.95	1.95	2.12	2.49	2.46	2.53	2.68	2.30	2.24	30
31	2.11	1.90	1.90	1.95	1.95	2.11		2.47		2.68	2.28		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 59 04	119 43 24	SW 7 11S 21E	77,000 ^a	23.8	12-11-37	OCT 07-DATE		1938		294.00	USGS
			12,000 ^a	11.69	6-6-69						

Station located 2 miles downstream from Friant Dam and 1.5 miles downstream from Cottonwood Creek. Flow regulated by Millerton Lake beginning in 1944, and by other upstream reservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

^a Maximum flows since construction of Friant Dam in 1944.

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1975	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	62.18	61.45	61.10	61.20	61.42	62.17	64.48	62.45	62.34	61.23	61.08	62.01	1
2	61.97	62.81	61.09	61.17	62.18	62.66	63.76	62.33	62.26	61.21	61.06	62.01	2
3	62.35	62.90	61.40	61.17	65.66	62.56	63.57	62.30	62.29	61.13	60.99	62.11	3
4	62.74	62.70	62.81	61.17	69.71	62.40	63.62	62.12	61.96	61.14	61.03	62.36	4
5	62.47	62.47	63.98	61.19	70.05	62.20	63.98	62.09	61.75	61.07	61.02	62.25	5
6	62.25	61.71	64.04	61.18	70.23	62.62	64.24	62.10	61.43	61.13	61.13	62.02	6
7	62.00	61.39	63.33	61.17	69.83	62.91	64.85	61.69	61.21	61.23	61.15	61.56	7
8	61.79	61.37	62.80	61.22	68.92	63.61	65.14	61.49	61.22	61.27	61.16	61.44	8
9	61.61	61.33	62.37	61.39	68.07	64.89	65.91	61.46	61.22	61.29	61.15	61.48	9
10	61.64	61.21	61.75	62.83	67.59	65.55	66.33	61.38	61.25	61.26	61.20	61.89	10
11	61.62	61.32	61.54	63.26	67.96	66.45	65.96	61.33	61.28	61.24	61.26	62.18	11
12	61.62	61.24	61.49	62.95	69.16	66.16	65.25	61.34	61.37	61.23	61.32	62.56	12
13	61.69	61.12	61.47	62.53	69.03	65.71	64.70	61.34	61.27	61.19	61.29	62.76	13
14	61.42	61.26	61.48	62.20	68.36	65.66	64.26	61.30	61.20	61.10	61.26	62.95	14
15	61.42	61.33	61.36	61.97	68.46	66.41	63.29	61.35	61.19	61.12	61.40	63.16	15
16	61.35	61.30	61.36	61.81	68.25	66.22	63.08	61.42	61.23	61.28	61.60	63.16	16
17	61.24	61.27	61.53	61.72	67.45	66.44	63.21	61.70	61.20	61.78	61.89	62.92	17
18	61.03	61.25	61.53	61.63	66.55	66.68	63.65	61.79	61.34	61.80	61.61	62.82	18
19	60.93	61.23	61.48	61.56	65.78	66.39	64.01	61.99	61.23	61.63	61.46	62.66	19
20	60.97	61.20	61.42	61.72	65.09	66.07	63.86	62.18	61.21	61.47	62.33	62.60	20
21	60.99	61.18	61.44	61.84	64.54	65.47	63.79	61.95	61.15	61.57	62.92	62.52	21
22	60.95	61.18	61.27	61.78	64.12	65.05	63.48	61.96	61.09	61.51	63.04	62.52	22
23	60.90	61.19	61.35	61.83	63.35	66.22	62.82	62.03	61.09	61.38	63.00	62.51	23
24	60.92	61.05	61.23	61.85	62.92	67.61	62.54	62.03	61.07	61.19	63.10	62.52	24
25	60.98	61.13	61.16	61.81	62.53	67.78	62.52	62.27	61.04	61.08	63.15	62.54	25
26	61.02	61.14	61.14	61.77	62.02	67.33	63.42	62.50	61.06	61.01	62.83	62.61	26
27	60.97	61.12	61.11	61.74	62.09	67.76	63.44	62.37	61.03	60.98	62.29	62.46	27
28	61.09	61.13	61.08	61.69	62.27	68.20	63.38	61.90	61.33	60.98	61.95	62.50	28
29	61.19	61.13	61.16	61.51		67.48	63.47	61.94	61.26	60.98	61.86	62.76	29
30	61.24	61.12	61.21	61.33		66.32	63.26	61.75	61.06	61.01	61.85	62.31	30
31	61.18		61.23	61.33		65.40		62.10		61.06	61.96		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
2-06-75	0515	70.34									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FRDM	TO		
37 17 42	120 51 00	26 7S 10E	26740	76.23	2-26-69	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS
Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flows regulated by upstream reservoirs and diversions. Drainage area is 7,388 square miles.											

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1975	B07375	SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	56.31	55.70	55.32	55.24	55.61	56.75	58.99	56.77	55.95	55.65	55.07	56.56	1
2	56.14	56.22	55.23	55.22	55.95	56.96	58.23	56.65	55.98	55.70	55.10	56.31	2
3	56.21	56.48	55.32	55.20	57.27	56.88	57.84	56.44	56.08	55.62	55.23	56.53	3
4	56.39	56.38	56.09	55.09	61.04	56.75	57.71	56.28	55.94	55.59	55.25	56.54	4
5	56.26	56.28	56.95	55.01	62.24	56.69	57.94	56.27	55.76	55.62	55.28	56.39	5
6	56.04	56.06	57.28	55.04	62.57	56.87	58.16	56.31	55.56	55.66	55.35	56.23	6
7	55.84	55.75	57.06	55.03	62.57	57.19	58.62	56.09	55.45	55.68	55.37	56.06	7
8	55.64	55.80	56.68	55.07	62.17	57.79	58.99	55.89	55.47	55.73	55.40	55.86	8
9	55.56	55.76	56.40	55.07	61.52	58.37	59.46	55.75	55.44	55.60	55.48	55.83	9
10	55.53	55.69	56.11	55.56	60.95	59.00	60.04	55.78	55.45	55.46	55.50	56.10	10
11	55.52	55.71	55.98	56.17	60.88	59.76	60.01	55.79	55.54	55.42	55.37	56.29	11
12	55.45	55.70	55.96	56.16	61.62	59.87	59.50	55.82	55.71	55.26	55.50	56.44	12
13	55.50	55.59	55.96	55.93	62.05	59.60	58.91	55.96	56.04	55.25	55.53	56.49	13
14	55.46	55.67	55.98	55.75	61.77	59.25	58.58	55.92	56.14	55.41	55.42	56.59	14
15	55.41	55.78	55.95	55.63	61.66	59.80	57.98	55.91	55.91	55.47	55.54	56.71	15
16	55.29	55.78	55.89	55.51	61.60	60.00	57.54	55.95	56.10	55.50	55.60	56.82	16
17	55.08	55.76	55.90	55.45	61.12	59.98	57.39	56.09	56.42	55.82	55.68	56.62	17
18	54.90	55.74	55.82	55.38	60.35	60.31	57.56	56.12	56.24	56.03	55.79	56.39	18
19	54.86	55.78	55.68	55.31	59.64	60.16	57.82	56.25	55.60	55.93	56.04	56.35	19
20	54.85	55.85	55.60	55.43	58.95	59.92	57.81	56.33	55.39	55.71	56.61	56.40	20
21	54.98	55.73	55.54	55.66	58.43	59.48	57.64	56.20	55.42	55.67	57.12	56.42	21
22	55.04	55.67	55.46	55.82	58.05	59.00	57.54	56.09	55.55	55.74	57.18	56.44	22
23	55.00	55.67	55.40	55.82	57.66	59.33	57.11	56.26	55.63	55.81	57.15	56.41	23
24	54.96	55.61	55.38	55.89	57.30	60.59	56.74	56.28	55.65	55.72	57.16	56.37	24
25	55.01	55.63	55.38	55.91	57.09	61.17	56.70	56.24	55.50	55.48	57.19	56.26	25
26	55.08	55.62	55.37	55.85	56.67	60.97	57.06	56.30	55.54	55.31	57.23	56.20	26
27	55.18	55.61	55.35	55.82	56.51	61.06	57.33	56.38	55.54	55.28	57.06	56.22	27
28	55.28	55.53	55.35	55.78	56.63	61.45	57.31	56.26	55.62	55.34	56.75	56.16	28
29	55.36	55.49	55.31	55.82		61.33	57.28	56.16	55.67	55.24	56.61	56.41	29
30	55.43	55.44	55.27	55.69		60.58	57.08	55.93	55.69	55.17	56.47	56.51	30
31	55.47		55.27	55.58		59.70		55.81		55.16	56.48		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED

NR - NO RECORD

NE - NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
2-06-75	1530	62.63									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M O B A M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 18 35	120 55 45		9180a	68.05	2-26-69	MAR 37-DATE		1944 1957 1959	1957 1959 1959	-3.73 -3.77 0.00	USCGS USCGS USCGS
Station located 30 feet below Fremont Ford Bridge, 4.5 miles west of Stevinson, 6.7 miles upstream from the Merced River. Drainage area is approximately 8,090 square miles.											
a During periods of high flow some water bypasses the station through three overflow channels known as North, Middle, and South Mud Sloughs.											

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1975	B05170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	6.36	7.76	6.02	7.50	7.35	7.52	8.81	6.56	6.28	6.36	6.39	7.03	1
2	6.36	7.77	6.02	7.49	8.29	7.51	8.54	6.62	6.24	6.24	6.46	7.18	2
3	6.36	7.75	6.14	7.52	7.75	7.52	8.21	6.66	6.56	6.28	6.43	7.57	3
4	6.35	7.67	6.10	7.52	7.80	7.54	7.91	6.64	6.60	6.27	6.46	7.77	4
5	6.38	8.00	8.07	7.51	7.99	7.59	7.97	6.73	6.55	6.30	6.58	7.79	5
6	6.41	8.02	8.06	7.52	6.52	7.59	7.86	6.90	6.97	6.36	6.53	7.71	6
7	6.46	8.04	8.06	7.50	8.66	7.64	7.78	6.80	10.15	6.43	6.35	7.63	7
8	6.59	8.03	8.06	7.60	8.63	7.64	8.59	6.70	10.19	6.49	6.40	7.64	8
9	8.26	8.03	8.06	7.53	8.74	7.55	8.98	6.60	10.70	6.51	6.46	7.68	9
10	8.57	8.02	7.96	7.50	8.98	7.60	8.73	6.58	11.57	6.49	6.37	7.70	10
11	8.40	8.01	7.89	7.49	9.70	7.56	8.52	6.58	12.15	6.50	6.46	7.82	11
12	8.24	8.01	7.90	7.51	10.08	7.54	8.51	7.13	12.06	6.46	6.35	7.96	12
13	7.39	8.04	7.88	7.50	10.26	7.76	8.53	7.74	11.80	6.52	6.42	8.09	13
14	6.48	8.05	7.87	7.51	10.00	7.67	8.44	8.19	11.87	6.61	6.37	8.12	14
15	6.52	8.05	7.86	7.51	9.47	7.58	8.36	8.28	12.27	6.64	6.35	8.21	15
16	6.48	8.01	7.78	7.50	9.46	7.66	8.29	8.27	12.11	6.64	6.36	8.26	16
17	6.49	8.01	7.62	7.49	9.08	7.58	8.25	8.26	10.92	6.28	6.38	8.27	17
18	6.44	8.05	7.56	7.49	8.44	7.55	8.48	8.27	9.50	6.31	6.47	8.25	18
19	6.43	8.04	7.52	7.51	8.08	7.55	8.40	8.27	8.41	6.30	6.61	8.27	19
20	6.44	8.04	7.51	7.49	8.03	7.55	8.36	8.28	8.06	6.30	6.59	8.28	20
21	6.43	8.06	7.52	7.49	8.04	7.59	8.26	8.33	8.19	6.32	6.55	8.32	21
22	6.38	8.07	7.51	7.49	8.04	7.98	7.78	8.43	8.21	6.32	6.49	8.40	22
23	6.38	8.08	7.49	7.49	8.03	7.60	7.45	8.53	8.18	6.28	6.46	8.48	23
24	6.38	8.08	7.49	7.44	8.01	8.08	7.30	8.47	8.15	6.26	6.57	8.55	24
25	6.59	8.08	7.50	7.46	8.03	9.16	6.99	8.44	8.10	6.29	6.63	8.59	25
26	7.70	8.04	7.50	7.47	7.84	9.94	6.78	8.45	8.10	6.26	6.55	8.58	26
27	7.76	8.05	7.51	7.49	7.55	9.71	6.75	8.44	7.40	6.22	6.51	8.67	27
28	7.78	8.04	7.52	7.49	7.54	9.71	6.73	8.45	6.73	6.25	6.54	8.84	28
29	7.73	8.07	7.52	7.49		9.72	6.72	8.42	6.58	6.25	6.68	8.92	29
30	8.10	8.03	7.51	7.45		9.75	6.65	8.33	6.74	6.24	6.79	8.97	30
31	7.61		7.52	7.29		9.42		8.29		6.24	6.90		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED

NR - NO RECORD

NE - NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
6-16-75	0130	12.35									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D S & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE
			CFS	GAGE HT	DATE			FROM	TO	
37 30 06	120 27 03	NE17 58 14E	14500	17.10	1-7-65	NOV 58-DATE		1958		221.12
Station located 0.2 mile downstream from Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by upstream reservoirs and dams. Drainage area is 1,096 square miles. Prior to November 1958, records available for a site 3.6 miles downstream. Merced Irrigation District Main Canal and several small gravity diversions are upstream from station.										

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1975	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	11.03	NR	12.33	11.76	11.63	11.81	13.85	11.10	12.48	11.20	10.77	11.30	1
2	11.02	NR	12.33	11.74	11.56	11.78	13.04	11.06	12.48	10.94	10.80	11.37	2
3	11.05	NR	12.49	11.74	14.34	11.75	12.88	11.08	12.50	10.86	10.90	11.41	3
4	11.08	12.07	12.62	11.76	12.50	11.77	12.25	11.08	12.90	10.81	10.96	11.96	4
5	11.09	12.25	12.46	11.75	13.49	11.83	12.20	11.08	12.83	10.82	10.95	12.02	5
6	11.08	12.33	12.39	11.76	12.75	11.88	12.26	11.14	12.72	10.81	11.06	12.06	6
7	11.08	12.35	12.37	11.77	13.16	11.94	12.05	11.15	14.21	10.79	11.02	11.99	7
8	11.09	12.38	12.37	11.77	13.21	12.88	12.48	11.03	15.25	10.79	10.92	11.99	8
9	11.24	12.36	12.36	11.86	13.94	12.71	13.43	11.02	15.36	10.84	10.92	12.03	9
10	12.71	12.35	12.37	11.82	14.04	12.03	13.52	10.95	16.83	10.87	10.97	12.02	10
11	13.11	12.34	12.23	11.76	14.29	12.21	12.95	10.92	18.14	10.85	10.90	12.05	11
12	12.78	12.35	12.18	11.76	15.23	11.96	12.86	10.92	18.69	10.89	10.90	12.25	12
13	12.67	12.35	12.19	11.76	15.63	11.91	12.84	11.48	18.19	10.87	10.87	12.40	13
14	11.62	12.37	12.16	11.75	16.59	13.11	12.83	12.01	17.89	10.89	10.88	12.58	14
15	11.12	12.37	12.15	11.75	15.15	12.22	12.72	12.31	18.37	10.91	10.86	12.63	15
16	11.05	12.37	12.14	11.74	14.56	12.05	12.59	12.40	18.76	10.96	10.87	12.79	16
17	11.00	12.34	12.01	11.72	14.48	12.22	12.53	12.41	17.81	11.05	10.90	12.79	17
18	10.99	12.34	11.90	11.71	13.51	11.93	12.60	12.46	15.66	10.82	10.96	12.75	18
19	10.96	12.37	11.84	11.71	12.76	11.86	12.74	12.49	13.74	10.80	11.11	12.76	19
20	10.96	12.36	11.80	11.73	12.53	11.84	12.62	12.48	12.74	10.79	11.17	12.84	20
21	10.96	12.37	11.80	11.71	12.42	11.84	12.61	12.52	12.49	10.81	11.15	12.85	21
22	10.95	12.38	11.80	11.71	12.39	12.96	12.39	12.63	12.55	10.83	11.07	12.97	22
23	10.92	12.40	11.78	11.70	12.35	12.46	11.82	12.77	12.52	10.87	10.98	13.07	23
24	10.92	12.41	11.76	11.70	12.32	12.05	11.69	12.87	12.49	10.78	11.04	13.15	24
25	10.91	12.40	11.76	11.68	12.27	12.91	NR	12.74	12.41	10.77	11.03	13.26	25
26	11.10	12.38	11.76	11.70	12.31	14.99	NR	12.76	12.34	10.77	11.06	13.33	26
27	NR	12.35	11.76	11.70	11.95	14.90	NR	12.77	12.23	10.78	10.98	13.27	27
28	NR	12.37	11.78	11.72	11.83	14.74	NR	12.72	11.42	10.76	10.93	13.47	28
29	NR	12.35	11.77	11.71		14.72	NR	12.69	11.22	10.67	10.96	13.64	29
30	NR	12.39	11.76	11.71		14.75	NR	12.62	11.16	10.77	11.04	13.64	30
31	NR		11.76	11.64		14.72		12.51		10.77	11.18		31

CREST STAGES

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
6-12-75	1900	18.80									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	* GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67 32.67a	12-4-50 12-4-50	JUL 41-DAT	APR 41-JUL 41	1950 1962	1962	96.24 86.23	USCGS USCGS

Station located 150 feet downstream from McSwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream from bridge. Flow regulated by upstream reservoirs and diversions. Drainage area is 1,224 square miles.

a Reflects present datum.

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1975	B07300	SAN JOAQUIN RIVER NEAR NEWMAN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	49.45	50.39	50.09	49.66	49.99	50.71	53.99	50.41	50.56	49.84	NR	49.84	1
2	49.41	50.44	50.06	49.63	50.14	50.74	53.04	50.26	50.64	49.78	NR	49.91	2
3	49.51	50.56	50.18	49.60	51.78	50.68	52.30	50.14	50.63	49.62	NR	49.95	3
4	49.61	50.53	50.67	49.57	53.62	50.60	52.04	50.03	50.61	49.51	NR	49.96	4
5	49.53	50.43	51.20	49.52	54.63	50.56	51.80	49.94	50.72	49.50	49.09	50.11	5
6	49.32	50.46	51.37	49.51	55.41	50.71	51.76	49.91	50.69	49.52	49.07	50.14	6
7	49.22	50.39	51.31	49.51	55.57	50.96	51.96	49.91	50.59	49.45	49.07	50.05	7
8	49.13	50.46	51.12	49.52	55.57	51.38	52.16	49.78	51.53	49.44	49.10	50.03	8
9	49.10	50.48	50.95	49.54	55.08	52.15	52.55	49.65	52.26	49.36	49.07	50.08	9
10	49.21	50.45	50.79	49.68	54.83	52.35	53.30	49.58	52.57	49.28	49.16	50.12	10
11	49.87	50.44	50.73	49.93	54.55	52.42	53.57	49.55	53.61	49.21	49.14	50.27	11
12	50.23	50.40	50.62	49.93	55.00	52.66	53.24	49.56	54.60	49.15	49.10	50.42	12
13	50.26	50.37	50.59	49.83	56.04	52.43	52.81	49.61	55.06	49.12	49.13	50.53	13
14	50.29	50.40	50.60	49.78	56.50	52.22	52.50	49.77	NR	49.24	49.11	50.60	14
15	49.78	50.48	50.06	49.75	56.65	52.85	52.12	50.01	53.79	49.25	49.10	50.81	15
16	49.39	50.52	50.53	49.73	56.12	52.90	51.63	50.27	55.16	49.33	49.16	50.94	16
17	49.16	50.53	50.40	49.72	55.50	52.79	51.44	50.56	55.39	49.42	49.28	50.95	17
18	48.98	50.50	50.25	49.69	53.63	52.95	51.49	50.63	54.97	49.51	49.45	50.77	18
19	48.92	50.48	50.06	49.69	53.72	52.84	51.75	50.73	53.38	49.38	49.59	50.78	19
20	48.90	50.50	49.95	49.98	52.83	52.53	51.97	50.76	51.85	49.37	49.71	50.76	20
21	48.95	50.43	49.87	50.11	52.27	52.22	51.88	50.77	51.04	49.38	50.07	50.83	21
22	49.03	50.36	49.81	50.22	51.89	51.96	51.73	50.76	50.90	49.29	50.21	50.99	22
23	48.97	50.34	49.76	50.25	51.63	52.43	51.43	50.78	50.95	49.21	50.18	51.00	23
24	48.94	50.32	49.73	50.26	51.39	51.89	50.90	50.84	50.76	49.07	50.12	51.02	24
25	48.92	50.31	49.70	50.26	51.25	53.36	50.79	50.90	50.71	48.92	50.27	51.12	25
26	48.94	50.24	49.69	50.20	51.08	53.95	50.75	50.99	50.62	48.86	50.21	51.12	26
27	49.11	50.19	49.69	50.15	50.95	54.84	50.82	51.05	50.53	48.94	50.00	51.17	27
28	49.64	50.17	49.71	50.07	50.78	55.28	50.78	50.95	50.43	48.82	49.88	51.16	28
29	49.94	50.15	49.73	50.10	55.42	50.68	50.78	50.07	50.07	NR	49.69	51.41	29
30	50.05	50.10	49.70	50.06	55.15	50.57	50.72	49.88	NR	NR	49.66	51.59	30
31	50.06		49.69	50.00	54.59		50.60			NR	49.65		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
2-15-75	0200	56.74									
E — ESTIMATED											
NR — NO RECORD											
NE — NO FLOW											

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF DATUM
			CFS	GAGE HT	DATE			FROM	TO	
37 21 02	120 58 34	SW 3 78 9E	34700a	65.90	2-26-69	APR 12-DATE		1912	1959	47.24 47.31 0.00 USCGS USCGS
Station located 300 feet downstream from bridge on Hills Ferry Road, 500 feet downstream from the Merced River, 3.5 miles northeast of Newman. Records furnished by U. S. Geological Survey. Drainage area is 9,520 square miles. This station equipped with DWR radio telemeter. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California". Flows regulated by upstream reservoirs and diversions.										
a During periods of high flow the Merced River overflows into Merced River Slough bypassing this station on the San Joaquin River. The maximum discharge of record (34,700 cfs) includes flow in Merced River Slough.										

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1975	B07200	SAN JOAQUIN RIVER AT PATTERSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	33.82	34.30	33.95	33.63	33.90	34.70	38.48	34.15	34.43	33.67	32.95	33.68	1
2	33.86	34.43	33.93	33.60	33.96	34.69	37.69	33.95	34.64	33.67	32.88	33.73	2
3	33.91	34.50	34.06	33.58	34.44	34.61	36.83	33.82	34.53	33.58	32.96	33.79	3
4	33.99	34.55	34.37	33.56	36.19	34.48	36.34	33.93	34.47	33.51	33.03	33.79	4
5	33.96	34.47	34.80	33.53	37.37	34.55	36.08	33.82	34.50	33.55	33.02	33.92	5
6	33.73	34.43	35.02	33.51	38.38	34.85	35.96	33.68	34.41	33.55	32.98	33.94	6
7	33.78	34.46	35.08	33.52	38.91	35.20	36.05	33.79	34.20	33.46	33.02	33.96	7
8	33.78	34.51	34.96	33.51	39.17	35.68	36.33	33.63	34.69	33.33	33.04	33.87	8
9	33.65	34.52	34.81	33.51	39.09	36.35	36.45	33.51	35.51	33.33	33.00	33.93	9
10	33.56	34.51	34.66	33.54	38.70	36.63	36.99	33.44	35.89	33.27	33.08	33.95	10
11	33.82	34.49	34.56	33.71	38.65	36.45	37.39	33.51	36.53	33.15	33.16	34.16	11
12	34.21	34.49	34.49	33.80	38.48	36.59	37.44	33.63	37.58	33.07	33.08	34.33	12
13	34.33	34.43	34.41	33.77	39.16	36.66	37.12	33.51	38.34	33.06	32.96	34.39	13
14	34.32	34.38	34.41	33.71	40.02	36.65	36.78	33.59	38.72	33.16	32.96	34.58	14
15	34.15	34.41	34.41	33.70	40.46	36.71	36.46	33.82	38.78	33.23	33.01	34.85	15
16	33.80	34.41	34.36	33.68	40.38	36.92	35.87	34.15	38.89	33.37	33.03	34.83	16
17	33.62	34.40	34.30	33.66	39.87	36.87	35.53	34.39	39.16	33.40	33.29	34.87	17
18	33.47	34.39	34.22	33.64	39.27	36.78E	35.32	34.54	39.23	33.45	33.56	34.81	18
19	33.40	34.36	34.08	33.61	38.43	36.65E	35.44	34.71	38.35	33.42	33.75	34.61	19
20	33.36	34.36	33.95	33.70	37.40	36.54E	35.69	34.70	36.76	33.37	33.68	34.58	20
21	33.33	34.33	33.86	33.87	36.62	36.42E	35.74	34.74	35.52	33.31	33.99	34.68	21
22	33.41	34.26	33.78	34.00	36.07	36.29	35.54	34.87	35.16	33.22	34.14	34.87	22
23	33.44	34.21	33.73	34.06	35.77	36.42	35.41	34.81	35.08	33.14	34.07	34.92	23
24	33.40	34.16	33.70	34.11	35.51	36.86	34.99	34.76	34.84	33.07	34.00	34.94	24
25	33.35	34.16	33.68	34.12	35.32	37.13	34.74	34.79	34.82	32.96	34.00	35.07	25
26	33.31	34.13	33.66	34.07	35.13	37.60	34.69	34.77	34.67	32.87	33.89	35.04	26
27	33.35	34.07	33.66	34.03	34.97	38.21	34.67	34.90	34.46	32.82	33.78	34.99	27
28	33.65	34.04	33.67	33.97	34.85	38.98	34.66	34.69	34.31	32.86	33.67	35.15	28
29	33.93	34.02	33.69	33.95	33.95	39.32	34.42	34.57	34.16	32.95	33.55	35.37	29
30	34.06	33.98	33.66	33.97	33.97	39.45	34.25	34.51	33.90	32.99	33.57	35.58	30
31	34.13		33.64	33.91		39.14		34.40		32.97	33.72		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED

NR - NO RECORD

NE - NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
2-15-75	1615	40.52									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
37 29 40	121 04 50	SW15 5S 8E	9600b	54.0 50.47a 46.12	6-13-38 6-13-38 2-16-73	OCT 69-DATE	APR 38-SEP 60	1938 1959 1959	1959	USED USCGS USED
Station located on the Patterson-Turlock Bridge, 3.1 miles northeast of Patterson. Drainage area is 9,758 square miles.										
a Reflects present datum. b Maximum discharge since station was rated in October 1969.										

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1975	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	72.40	73.71	71.68	72.36	73.06	71.34	70.86	70.22	70.36	69.67	69.58	69.67	1
2	71.93	74.04	71.86	71.99	72.06	71.37	70.71	70.19	69.82	69.66	69.77	69.66	2
3	71.91	73.90	72.24	73.60	71.70	71.56	70.29	70.24	69.74	69.66	69.77	69.95	3
4	71.69	73.79	71.96	73.32	72.76	72.25	70.25	70.26	69.74	69.67	69.69	70.54	4
5	71.27	72.31	72.16	72.44	72.64	72.24	70.54	70.26	70.19	69.67	70.14	71.20	5
6	71.19	71.72	72.21	72.08	72.56	72.48	70.42	70.26	70.29	69.70	70.10	71.28	6
7	71.14	71.70	72.18	73.57	72.53	72.41	70.34	70.28	69.96	69.63	69.72	71.33	7
8	71.17	71.69	72.18	73.40	72.11	72.07	70.81	70.39	69.82	69.69	69.65	71.01	8
9	71.11	71.69	72.14	73.50	71.67	71.43	70.71	70.29	69.79	69.80	69.87	70.94	9
10	71.05	71.70	72.18	73.55	71.57	71.73	70.55	70.29	70.27	69.83	69.80	71.20	10
11	71.34	71.70	72.18	73.21	72.41	72.52	70.31	70.29	70.44	70.10	69.69	70.94	11
12	71.27	71.67	72.21	72.30	72.35	71.27	70.23	70.28	70.02	69.98	69.98	71.35	12
13	70.89	71.67	72.18	71.96	72.58	71.04	70.22	70.41	69.85	69.71	69.80	71.29	13
14	70.27	71.67	72.19	73.52	72.56	71.37	70.22	70.64	70.24	69.64	69.69	70.92	14
15	70.60	71.75	72.18	73.55	72.19	71.12	70.22	70.30	69.85	69.79	69.65	70.87	15
16	72.59	71.79	72.08	73.58	71.55	71.14	70.21	70.30	69.77	69.70	69.67	70.85	16
17	72.57	71.80	71.63	73.61	70.99	71.13	70.21	70.31	69.73	69.65	69.68	70.84	17
18	72.58	71.80	71.56	73.31	71.52	71.31	70.22	70.32	69.73	69.78	69.93	70.99	18
19	72.48	71.77	71.56	72.39	72.49	72.23	70.22	70.31	69.75	69.67	70.20	71.32	19
20	72.73	71.77	71.77	71.99	72.56	72.52	70.23	70.33	69.74	69.63	69.82	70.93	20
21	72.81	71.78	71.95	73.62	72.62	72.42	70.22	70.31	69.73	69.62	69.66	70.85	21
22	73.49	71.78	71.42	73.58	72.28	72.26	70.22	70.32	69.74	69.76	69.81	70.87	22
23	73.58	71.78	71.37	73.62	71.52	71.43	70.22	70.32	69.75	70.69	69.71	71.28	23
24	73.57	71.79	72.12	73.52	71.58	71.59	70.22	70.47	69.72	70.41	69.68	71.39	24
25	73.57	71.79	72.35	73.06	72.33	72.17	70.22	70.34	69.76	70.26	69.67	71.62	25
26	73.48	71.77	71.98	72.11	71.94	71.19	70.24	70.33	69.75	70.31	69.86	71.64	26
27	73.37	71.65	73.35	71.96	71.18	71.01	70.25	70.32	69.74	69.84	69.71	71.43	27
28	73.45	71.59	73.15	73.56	71.03	70.95	70.22	70.61	69.74	69.71	69.68	71.04	28
29	73.57	71.48	72.44	73.58		70.89	70.23	70.79	69.74	69.76	69.66	70.85	29
30	73.42	71.67	72.06	73.59		70.88	70.23	70.66	69.70	69.68	69.66	70.99	30
31	73.35		73.31	73.61		70.88		70.74		69.63	69.68		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
E - ESTIMATED	1-	7-75	0315	74.95								
NR - NO RECORD	2-	1-75	0330	74.92								
NE - NO FLOW												

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1 SEC T & R M D B & M	OF RECORD		DATE	DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT					FROM	TO	
37 38 10	120 45 14	NW34 38 11E	59000	96.2	12-B-50	JUL 32-OCT 36			1932		-1.13 USCGS
						JAN 37-MAR 37					
						JUL 37-FEB 38					
						JUL 38-DEC 38					
						MAR 39-DATE					
Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. Drainage area is 1,655 square miles. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge.											

TABLE B-9(Cont.)
DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1975	B04130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	68.53	68.78	68.85	67.60	67.59	67.84	68.36	68.39	68.32	68.31	68.36	68.49	1
2	68.51	68.69	69.11	67.60	67.59	67.85	68.25	68.51	68.38	68.42	68.41	68.46	2
3	68.59	68.59	69.34	67.63	70.46	68.02	68.31	68.56	68.37	68.46	68.36	68.44	3
4	68.50	68.55	69.21	67.65	70.31	68.31	68.43	68.61	68.36	68.36	68.38	68.46	4
5	68.51	68.54	69.31	67.64	70.36	68.35	68.34	68.59	68.30	68.34	68.37	68.67	5
6	68.52	68.56	69.67	67.70	69.21	68.34	69.43	68.54	68.31	68.39	68.29	68.56	6
7	68.50	68.57	69.56	67.74	68.52	68.23	70.18	68.61	68.39	68.92	68.26	68.53	7
8	68.47	68.93	69.50	67.71	68.45	68.67	69.65	68.43	68.26	68.66	68.33	68.54	8
9	68.43	69.55	69.47	67.69	68.83	70.25	69.43	68.43	68.32	68.35	68.35	68.56	9
10	68.47	69.54	69.47	67.75	72.82	69.28	69.11	68.35	68.32	68.29	68.33	68.56	10
11	68.54	69.52	69.64	67.92	70.16	69.14	68.77	68.49	68.39	68.34	68.34	68.51	11
12	68.51	69.51	69.65	67.79	68.82	69.07	68.65	68.43	68.40	68.39	68.44	68.57	12
13	68.56	69.50	69.61	67.71	68.91	68.89	68.56	68.38	68.45	68.43	68.36	68.51	13
14	68.49	69.33	69.56	67.67	73.64	72.51	68.49	68.37	68.31	68.32	68.31	68.33	14
15	68.51	68.90	69.54	67.68	70.19	71.50	68.40	68.21	68.24	68.32	68.28	68.43	15
16	68.59	68.91	69.50	67.65	68.76	69.77	68.34	68.36	68.53	68.33	68.40	68.51	16
17	68.55	68.86	69.49	67.60	68.44	72.56	68.42	68.34	69.12	68.30	68.36	68.51	17
18	68.49	68.96	69.46	67.59	68.32	69.47	68.51	68.26	68.32	68.35	68.47	68.47	18
19	68.46	69.27	69.47	67.58	68.23	68.79	68.47	68.21	68.40	68.37	68.89	68.57	19
20	68.40	67.99	69.46	67.57	68.16	68.53	68.46	68.33	68.49	68.43	66.77	68.56	20
21	68.48	67.73	68.47	67.57	68.12	68.41	68.54	68.35	68.49	68.45	68.69	68.67	21
22	69.92	67.69	67.76	67.57	68.16	70.29	68.53	68.31	68.54	68.70	68.63	68.64	22
23	70.65	67.67	67.73	67.57	68.12	73.00	68.52	68.37	68.90	68.60	68.51	68.61	23
24	70.73	67.68	67.80	67.56	68.06	69.79	68.47	68.36	69.73	68.35	68.51	68.65	24
25	70.69	67.67	67.65	67.57	68.01	69.50	68.44	68.37	68.37	68.31	68.61	68.57	25
26	69.49	67.67	67.62	67.56	68.00	71.46	68.61	68.33	68.40	68.27	68.64	68.54	26
27	69.14	67.67	67.62	67.55	67.96	69.59	68.66	68.24	68.44	68.38	68.64	68.65	27
28	69.09	67.67	67.64	67.56	67.90	68.79	68.50	68.23	68.39	68.38	68.43	68.59	28
29	68.96	67.66	67.61	67.56	68.54	68.53	68.57	68.27	68.32	68.38	68.42	68.54	29
30	68.65	67.71	67.61	67.55	68.45	68.46	68.46	68.30	68.73	68.38	68.41	68.54	30
31	68.67	67.60	67.60	67.55	68.41		68.30	68.30		68.34	68.48		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
3-23-75	0030	76.05									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE					
37 39 26	120 55 19	SE24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE		1941		USCGS

Station located 0.1 mile downstream from Claus Road bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 to March 1941 records available for a site 2.5 miles downstream. This is a Department of Water Resources-Modesto Irrigation District cooperative station. Drainage area is 192.3 square miles. There are no upstream impairments.

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO	STATION NAME
1975	B04120	TUOLUMNE RIVER AT MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	42.76	44.63	NR	43.49	44.90	41.77	41.76	41.30	NR	41.04	40.84	40.90	1
2	42.34	45.52	NR	41.95	43.13	42.04	41.70	41.31	NR	40.92	40.87	40.90	2
3	42.27	45.69	NR	43.77	42.22	41.77	41.56	41.32	NR	40.96	40.96	40.90	3
4	42.22	45.49	NR	44.33	43.67	42.31	41.43	41.35	NR	40.95	40.96	41.20	4
5	42.06	44.56	NR	43.62	43.75	NR	41.48	41.35	NR	40.99	40.99	41.48	5
6	42.00	42.64	NR	42.01	43.46	NR	41.66	41.35	40.46	41.07	41.14	41.67	6
7	41.99	42.35	NR	44.05	43.21	NR	41.73	41.36	41.15	41.10	41.04	41.75	7
8	41.98	42.34	NR	44.24	43.02	NR	41.95	41.36	41.04	41.10	40.89	41.66	8
9	41.93	42.41	41.78	44.20	42.37	NR	42.06	41.39	40.96	40.99	40.91	41.59	9
10	41.82	42.41	42.80	44.45	42.52	NR	41.91	41.31	41.06	40.97	40.99	41.65	10
11	41.87	42.40	42.83	44.48	43.13	NR	41.69	41.36	41.31	41.04	40.97	41.82	11
12	41.92	42.38	42.87	43.47	42.91	NR	41.71	41.35	41.19	41.10	40.93	41.71	12
13	41.83	42.39	42.87	41.99	40.15	NR	41.46	41.37	41.07	41.06	41.01	41.76	13
14	41.66	42.37	42.85	43.80	44.33	NR	41.42	41.49	41.06	40.93	40.96	41.63	14
15	41.45	42.34	42.89	44.44	43.69	NR	41.40	41.38	41.12	40.89	40.84	41.62	15
16	42.01	42.40	42.79	44.60	42.44	NR	41.38	41.35	41.00	39.94	40.89	41.58	16
17	42.49	42.41	42.28	44.65	41.91	41.62	41.37	41.33	41.15	40.92	40.90	41.54	17
18	42.49	42.41	42.11	44.65	41.78	42.25	41.42	41.33	40.92	40.91	41.09	41.58	18
19	42.41	42.46	42.07	43.81	42.62	42.49	41.41	41.33	40.98	41.00	41.48	41.83	19
20	42.52	42.31	42.06	41.67	43.05	43.21	41.42	41.34	40.99	40.91	41.40	41.66	20
21	42.58	42.30	42.30	44.03	42.92	43.26	41.42	41.41	41.01	40.94	41.08	41.60	21
22	43.30	42.30	41.96	44.57	43.14	43.56	41.38	NR	41.00	40.91	40.97	41.57	22
23	44.83	42.29	41.72	44.72	42.34	44.07	41.38	NR	41.01	41.16	41.00	41.71	23
24	45.19	42.29	42.08	44.64	41.66	42.42	41.40	NR	41.10	41.46	40.93	41.80	24
25	45.24	42.30	42.53	44.38	42.53	43.02	41.41	NR	40.93	41.26	40.99	41.91	25
26	45.08	42.29	41.96	43.26	42.61	43.13	41.36	NR	40.94	41.25	41.05	42.00	26
27	44.79	42.26	43.24	41.96	42.03	42.28	41.42	NR	40.96	41.12	41.13	41.97	27
28	44.65	42.22	43.81	43.92	41.80	42.00	41.35	NR	40.93	41.05	41.04	41.79	28
29	44.82	42.12	43.21	44.56	41.81	41.34	41.34	NR	40.93	40.96	41.00	41.65	29
30	44.82	42.20	42.03	44.76	41.80	41.33	41.33	NR	40.96	40.96	41.00	41.65	30
31	44.60		43.49	44.68	41.81			NR	40.90	41.00			31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
E - ESTIMATED	2-01-75	1230	45.91								
NR - NO RECORD											
NE - NO FLOW											

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 37 38	120 59 20	SW33 3S 9E	57000	69.19	12-9-50	JAN 95-DEC 96 MAR 40-DATUM	1878-1884 1891-1894	1940		0.00	USCGS

Station located at U. S. Highway 99 Bridge. Records furnished by U. S. Geological Survey. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,884 square miles. This station equipped with DWR radio telemeter. Flows regulated by upstream reservoirs and diversions.

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1975	B04105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	28.04	29.99	27.17	28.81	30.03	25.71	26.33	24.31	24.63	23.57	23.30	23.29	1
2	27.70	30.54	27.36	27.23	28.97	26.15	25.93	24.31	24.34	23.39	23.25	23.28	2
3	27.11	30.96	27.83	27.64	27.22	25.93	25.44	24.33	23.68	23.37	23.32	23.18	3
4	27.04	30.85	28.05	29.38	28.36	26.75	24.96	24.36	23.64	23.39	23.38	23.44	4
5	26.69	30.42	27.50	29.08	28.90	27.47	24.92	24.40	23.58	23.44	23.33	24.20	5
6	26.30	28.61	27.94	27.48	29.10	27.90	25.22	24.36	23.82	23.57	23.67	24.92	6
7	26.22	27.66	28.13	27.88	28.90	28.29	25.51	24.38	24.00	23.55	23.66	25.27	7
8	26.15	27.50	28.12	29.43	28.85	28.43	25.69	24.32	23.79	23.66	23.30	25.32	8
9	26.07	27.61	28.10	29.36	28.21	28.08	26.21	24.40	23.66	23.50	23.28	25.01	9
10	25.74	27.01	28.04	29.53	27.99	27.46	26.10	24.27	23.56	23.38	23.39	25.00	10
11	25.63	27.60	28.08	29.64	28.48	27.96	25.64	24.35	24.02	23.45	23.41	25.15	11
12	25.85	27.56	28.11	29.05	28.62	28.62	25.17	24.32	24.33	23.71	23.29	25.13	12
13	25.75	27.55	28.12	27.32	28.71	27.22	24.95	24.28	24.10	23.69	23.44	25.46	13
14	25.31	27.53	28.10	27.78	29.65	27.20	24.82	24.45	24.15	23.53	23.40	25.40	14
15	24.71	27.42	28.12	29.43	30.20	28.36	24.68	24.60	24.59	23.28	23.23	25.09	15
16	25.24	27.50	28.11	29.70	29.04	27.28	24.57	24.34	24.57	23.44	23.22	25.08	16
17	27.41	27.56	27.58	29.78	27.81	27.69	24.51	24.28	24.79	23.40	23.30	24.83	17
18	27.63	27.55	26.60	29.65	26.83	27.41	24.56	24.33	24.78	23.38	23.40	24.87	18
19	27.60	27.61	26.62	29.33	27.46	27.33	24.56	24.26	24.56	23.42	24.33	25.10	19
20	27.58	27.47	26.54	27.48	28.32	28.35	24.61	24.22	23.90	23.37	24.58	27.37	20
21	27.83	27.28	26.90	28.00	28.36	28.72	24.58	24.34	23.59	23.37	23.96	25.09	21
22	28.25	27.26	26.58	29.59	28.38	28.82	24.46	24.22	23.59	23.24	23.51	24.96	22
23	29.70	27.20	25.85	29.82	27.67	29.52	24.42	24.22	23.49	23.40	23.49	25.05	23
24	30.41	27.20	26.00	29.87	26.48	28.15	24.43	24.27	23.66	24.28	23.39	25.50	24
25	30.53	27.20	27.03	29.72	26.93	28.08	24.56	24.38	23.47	24.17	23.33	25.75	25
26	30.50	27.19	26.85	28.87	27.62	28.73	24.43	24.27	23.36	23.96	23.31	26.07	26
27	30.25	27.16	27.32	27.11	26.93	27.85	24.56	24.21	23.41	23.97	23.41	26.18	27
28	30.10	27.01	28.84	27.94	26.01	27.05	24.47	24.17	23.41	23.63	23.40	25.69	28
29	30.15	26.86	28.63	29.59	26.67	24.36	24.50	23.42	23.47	23.24	23.24	25.41	29
30	30.24	26.80	27.29	29.84	26.60	24.35	24.73	23.36	23.40	23.40	23.24	25.09	30
31	30.10	27.60	27.60	29.87	26.66	24.66	24.83	24.83	23.35	23.29	23.29		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
11-03-74	2115	31.04						

E - ESTIMATED
NR - NO RECORD
NE - NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC T & R M D B A M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE					
37 36 12	121 07 50	NW 7 4S 8E		46.65	12- 9-50	1930-DATE		1959	0.00	USED
				43.15a	12- 9-50			1960	0.00	USCGS
			37900b	42.86	1-27-69			1960	3.50	USED

Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Flows regulated by upstream reservoirs and diversions.

a Reflects present datum.
b Maximum discharge since Department of Water Resources began operation of station in April 1966.

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1975	B07040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	17.74	18.88	17.37	17.72	18.62	17.27	20.01	15.83	17.99	15.52	14.48	15.15	1
2	17.74	19.10	17.52	17.34	18.46	17.29	19.44	15.67	18.76	15.30	14.40	15.05	2
3	17.37	19.47	17.77	16.71	17.57	17.37	18.67	15.67	19.34	15.23	14.45	15.10	3
4	17.27	19.46	18.25	17.92	17.97	17.21	18.04	16.25	20.07	15.23	14.57	15.06	4
5	17.15	19.45	18.18	18.03	19.31	17.68	17.71	16.66	20.13	15.26	14.47	15.43	5
6	16.83	18.65	18.41	17.45	20.23	18.01	17.65	16.58	19.81	15.34	14.44	15.88	6
7	16.69	17.83	18.69	16.81	20.77	18.50	17.82	16.81	20.09	15.30	14.54	16.14	7
8	16.66	17.64	18.72	18.01	21.00	18.92	18.03	16.89	20.25	15.17	14.55	16.27	8
9	16.58	17.67	18.65	18.08	20.91	19.10	18.57	16.83	20.61	15.19	14.54	16.13	9
10	16.33	17.67	18.54	18.16	20.63	19.12	18.75	16.76	20.80	15.08	14.57	16.03	10
11	16.22	17.64	18.48	18.31	20.72	19.13	18.74	16.52	20.75	14.86	14.68	16.27	11
12	16.61	17.63	18.46	18.22	20.89	19.71	18.59	16.43	20.34	14.89	14.63	16.37	12
13	16.80	17.66	18.44	17.49	20.93	19.57	18.35	16.28	19.35	14.90	14.53	16.59	13
14	16.74	17.67	18.42	16.91	21.56	19.47	18.12	16.53	19.64	14.83	14.47	16.60	14
15	16.41	17.60	18.43	18.01	22.36	20.08	17.82	16.74	20.45	14.74	14.43	16.64	15
16	16.22	17.61	18.42	18.27	22.04	19.90	17.44	16.90	20.80	14.75	14.44	16.69	16
17	16.97	17.62	18.25	18.40	21.37	19.88	17.01	17.02	20.90	14.92	14.68	16.60	17
18	17.15	17.60	17.75	18.44	20.61	19.96	16.91	17.24	21.02	14.92	15.23	16.58	18
19	17.08	17.60	17.51	18.26	20.30	19.75	16.83	17.30	20.78	15.05	15.88	16.58	19
20	16.97	17.57	17.36	17.57	20.41	20.08	16.93	17.38	19.62	15.08	15.96	16.77	20
21	17.06	17.40	17.34	16.96	20.12	20.30	17.01	17.55	17.75	15.01	15.79	16.73	21
22	17.17	17.34	17.16	18.28	19.76	20.31	16.84	17.62	16.98	14.75	15.71	16.73	22
23	17.85	17.26	16.58	18.55	19.45	20.69	16.74	17.49	16.65	14.56	15.76	16.77	23
24	18.47	17.24	16.36	18.65	18.77	20.52	16.56	17.42	16.39	14.72	15.68	16.92	24
25	18.67	17.30	16.79	18.62	18.47	20.18	16.40	17.52	16.24	14.95	15.48	17.06	25
26	18.75	17.33	16.98	18.31	18.92	20.62	16.36	17.51	16.05	14.67	15.13	17.28	26
27	18.68	17.37	16.65	17.48	18.44	20.60	16.42	17.54	15.93	14.71	15.03	17.35	27
28	18.66	17.36	17.68	17.02	17.67	20.37	16.41	17.54	15.81	14.53	14.98	17.34	28
29	18.77	17.32	17.79	18.20		20.32	16.20	17.51	15.79	14.50	14.87	17.23	29
30	18.93	17.23	17.34	18.47		20.46	15.96	17.55	15.72	14.51	14.87	17.15	30
31	18.95		16.78	18.57		20.50		17.63		14.59	15.07		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED

NR - NO RECORD

NE - NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
2-15-75	1035	22.40									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CF5	GAGE HT	DATE						
37 38 28	121 13 37	SW29 3S 7E	45,550	38.31a	1-27-69	JAN 50-MAR 52 OCT 65-DATE	SEP 43-DEC 49 APR 52-SEP 65	1943 1959 1959	0.00 0.00 3.41	USED USCGS USED	
Station located at State Highway 132 Bridge, 13 miles west of Modesto, 2 miles upstream from mouth of the Stanislaus River. Gage height-discharge relation affected by backwater from the Stanislaus River during high flows in the Stanislaus. Flows regulated by upstream reservoirs and diversions. Drainage area is 12,400 square miles.											
a This maximum gage height of record does not represent the maximum discharge of record as the station was affected by backwater from the Stanislaus River.											

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1975	B03175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.06	1.87	4.97	2.23	1.54	4.38	5.32	2.27	12.55	1.61	1.77	1.70	1
2	1.72	1.84	4.98	2.21	1.67	4.37	4.68	3.77	13.50	2.45	1.71	1.71	2
3	1.70	1.80	5.06	2.25	1.93	3.68	4.18	6.76	12.47	3.16	1.69	1.69	3
4	1.71	1.81	5.05	2.23	4.01	1.87	3.95	7.45	10.43	2.53	1.71	1.64	4
5	1.67	1.95	4.91	2.26	6.52	1.72	3.93	7.64	12.36	2.74	1.70	1.67	5
6	1.68	2.17	4.89	2.30	6.49	1.70	4.16	7.82	11.94	2.52	1.74	1.65	6
7	1.72	2.21	4.89	2.11	6.31	1.70	4.28	7.81	12.05	3.36	1.69	1.62	7
8	1.78	2.22	4.87	2.06	6.05	2.34	4.65	7.71	11.98	4.03	1.63	1.64	8
9	1.72	2.25	4.86	2.04	6.54	4.21	4.77	7.09	11.57	3.18	1.62	1.66	9
10	1.69	2.26	4.85	2.01	6.62	4.19	4.77	6.21	10.07	2.09	1.66	1.65	10
11	1.77	2.26	4.84	1.98	6.50	5.12	4.81	6.19	7.69	1.72	1.69	1.62	11
12	1.79	2.25	4.83	1.99	6.46	6.11	4.81	6.64	5.87	1.75	1.63	1.66	12
13	1.75	2.25	4.83	1.97	6.84	6.28	4.79	7.27	8.45	1.73	1.62	1.63	13
14	1.68	2.25	4.81	1.98	6.57	6.34	4.33	6.93	9.44	1.70	1.64	1.62	14
15	1.68	2.26	4.80	1.97	6.45	6.13	3.81	7.04	9.41	1.75	1.63	1.60	15
16	1.61	2.26	4.81	1.95	6.42	6.61	3.44	7.03	9.45	1.81	1.62	1.62	16
17	1.62	2.25	4.80	1.94	6.40	6.15	3.26	7.09	9.19	1.82	1.61	1.60	17
18	1.61	2.25	4.78	1.96	6.39	6.10	3.13	7.13	8.65	1.77	1.71	1.56	18
19	1.58	2.21	4.77	1.96	6.39	6.07	2.97	7.28	5.82	1.78	1.75	1.58	19
20	1.58	2.22	4.39	1.93	6.39	6.06	2.90	7.40	3.35	1.73	1.66	1.64	20
21	1.64	2.21	3.16	1.98	6.38	6.08	2.90	7.39	2.26	1.72	1.63	1.67	21
22	1.60	2.40	2.99	1.94	6.36	6.78	3.06	7.29	1.88	1.73	1.62	1.65	22
23	2.69	3.54	2.96	1.96	6.35	6.17	3.04	7.23	1.77	1.72	1.56	1.65	23
24	3.02	3.83	2.71	1.95	6.34	6.21	3.06	7.13	1.74	1.65	1.55	1.66	24
25	3.46	4.20	2.10	1.95	5.91	6.33	3.07	7.24	1.71	1.64	1.56	1.66	25
26	3.34	4.94	2.03	1.93	4.71	6.15	3.05	7.31	1.70	1.68	1.56	1.61	26
27	3.35	4.95	2.03	1.95	4.41	6.09	3.05	7.46	1.72	1.70	1.71	1.62	27
28	3.28	4.96	2.04	1.95	4.40	6.07	3.05	7.52	1.73	1.74	1.74	1.62	28
29	2.99	4.97	2.17	1.96	6.06	6.06	2.87	7.57	1.68	1.73	1.74	1.62	29
30	1.93	4.99	2.24	1.81	5.79	5.79	2.82	7.74	1.62	1.70	1.73	1.65	30
31	1.91		2.25	1.60		5.42		10.61	1.75	1.68			31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED

NR - NO RECORD

NE - NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
6-02-75	1815	13.88									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE					
37 47 18	120 45 41	SW 4 2S 11E	62000	31.8	12-23-55	JUN 26-DEC 39				
						APR 40-DATE				
Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. This station is equipped with radio telemeter.										

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1975	B03125	STANISLAUS RIVER AT RIFON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	37.86	37.88	40.94	37.03	36.50	41.28	42.96	38.79	50.37	38.79	37.62	37.89	1
2	37.88	37.68	41.03	36.99	36.46	41.25	42.47	38.24	53.02	38.50	37.37	37.44	2
3	37.63	37.47	41.53	36.96	36.45	41.08	41.76	40.27	54.85	38.66	37.09	37.30	3
4	37.79	37.46	41.98	36.95	36.59	40.09	41.22	44.12	54.84	39.28	37.28	37.33	4
5	37.87	37.30	41.63	36.92	39.12	39.42	40.87	45.41	53.37	39.06	37.36	37.02	5
6	37.31	37.31	41.64	36.90	42.50	39.07	40.78	45.88	54.34	39.45	37.06	37.04	6
7	37.24	37.50	41.78	36.91	43.15	38.95	41.02	46.57	54.38	39.25	37.26	37.54	7
8	37.35	37.61	41.82	36.89	43.18	39.10	41.79	46.62	54.44	39.80	37.51	38.07	8
9	37.29	37.38	41.80	36.91	43.02	39.17	42.54	46.70	54.47	40.54	37.31	37.77	9
10	37.30	37.15	41.80	36.94	43.77	40.60	42.63	45.77	54.10	39.71	37.51	37.37	10
11	37.37	37.09	41.80	36.87	43.88	40.84	42.42	44.46	52.78	38.60	37.43	37.32	11
12	37.65	37.07	41.79	36.85	43.75	42.09	42.16	44.37	49.25	38.23	37.21	37.27	12
13	38.02	37.06	41.83	36.82	43.88	43.35	42.19	45.05	46.20	38.21	37.19	37.05	13
14	38.26	36.44	41.88	36.80	44.86	44.43	41.81	45.91	48.94	38.09	37.21	36.87	14
15	38.31	37.34	41.84	36.79	44.29	44.44	41.03	45.57	50.64	37.87	37.17	37.39	15
16	37.54	37.81	41.85	36.78	43.95	44.27	40.45	45.60	50.97	37.66	37.10	37.33	16
17	37.65	37.90	41.87	36.74	43.86	44.70	40.21	45.66	51.10	37.73	37.43	36.94	17
18	37.37	37.93	41.86	36.73	43.83	44.23	39.82	45.77	50.88	38.03	37.64	37.22	18
19	37.20	37.99	41.84	36.72	43.83	43.98	39.50	45.88	49.90	37.92	38.26	36.87	19
20	37.24	37.69	41.83	36.72	43.85	43.94	39.46	46.21	45.54	38.07	38.24	37.66	20
21	37.32	37.21	41.16	36.70	43.84	43.94	39.52	46.69	42.26	38.03	38.11	37.74	21
22	37.28	37.13	39.30	36.71	43.82	44.35	39.27	46.47	41.02	37.76	37.88	37.71	22
23	37.23	37.18	38.75	36.69	43.81	45.00	39.26	46.15	40.35	37.63	37.64	37.22	23
24	37.69	38.32	38.55	36.68	43.82	44.29	39.34	46.03	40.12	37.52	37.67	37.19	24
25	38.28	39.03	38.24	36.67	44.15	44.26	39.55	46.12	39.41	37.34	37.20	37.25	25
26	38.85	39.56	37.64	36.66	43.72	44.44	39.67	46.05	39.08	37.48	37.09	37.10	26
27	38.61	40.48	37.39	36.63	41.91	44.04	39.61	46.22	39.07	37.43	37.43	37.24	27
28	38.46	40.70	37.29	36.64	41.44	43.86	39.56	46.35	38.99	37.51	37.52	37.00	28
29	38.43	40.81	37.21	35.83		43.97	39.41	46.44	39.00	37.52	37.44	37.13	29
30	38.28	40.88	37.14	36.62		44.40	39.10	46.61	39.06	37.63	37.25	37.21	30
31	37.86		37.08	36.58		43.80		47.08		37.28	37.74		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
— ESTIMATED	6-03-75	2230	55.37									
NR — NO RECORD												
NE — NO FLOW												

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE
			CFS	GAGE HT	DATE			FROM	TO	
37 43 50	121 06 35	SE29 2S 8E	62500	63.25	12-24-55	APR 40-DATE		1940		0.00
USGS										

Station located 15 feet downstream from the Southern Pacific Railroad Bridge, 1.0 mile southeast of Rifon. Records furnished by U. S. Geological Survey. Flow records are published in U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,075 square miles.

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1975	B03115	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	29.32	28.78	31.78	28.01	27.18	32.08	33.79	29.99	39.58	29.75	28.77	29.13	1
2	29.15	28.62	31.86	27.96	27.13	32.02	33.24	29.54	41.79	29.54	28.73	28.72	2
3	28.98	28.38	32.24	27.92	27.09	31.89	32.71	30.69	43.68	29.56	28.35	28.35	3
4	28.91	28.23	32.72	27.88	27.18	31.21	32.27	34.44	44.76	30.20	28.50	28.44	4
5	29.07	28.15	32.57	27.87	28.65	30.58	31.87	35.78	43.49	29.93	28.57	28.24	5
6	28.80	28.12	32.43	27.83	32.58	30.23	31.78	36.23	43.62	30.47	28.30	28.31	6
7	28.69	28.27	32.60	27.73	33.56	29.91	32.01	36.80	44.14	30.30	28.39	28.70	7
8	28.75	28.41	32.63	27.59	33.76	30.08	32.67	36.99	44.26	30.52	28.58	29.14	8
9	28.63	28.31	32.63	27.59	33.62	29.97	33.46	37.05	44.31	31.36	28.76	29.05	9
10	28.74	28.00	32.61	27.64	34.18	31.26	33.60	36.42	44.10	30.79	28.81	28.60	10
11	28.81	27.90	32.61	27.58	34.41	31.65	33.43	35.30	43.06	29.82	28.73	28.54	11
12	29.00	27.86	32.59	27.55	34.31	32.55	33.25	35.16	40.08	29.52	28.52	28.48	12
13	29.30	27.84	32.62	27.52	34.37	33.85	33.22	35.49	36.71	29.64	28.61	28.18	13
14	29.50	27.82	32.67	27.50	35.15	34.85	33.01	36.42	38.59	29.33	28.28	28.07	14
15	29.54	27.98	32.64	27.48	34.90	35.10	32.26	36.18	40.31	29.17	28.41	28.44	15
16	28.92	28.53	32.62	27.47	34.51	34.86	31.63	36.23	40.72	29.09	28.43	28.57	16
17	28.70	28.70	32.65	27.43	34.41	35.38	31.33	36.18	40.85	28.98	28.65	28.26	17
18	28.42	28.75	32.63	27.41	34.38	34.90	31.02	36.33	40.69	29.23	28.96	28.21	18
19	28.17	28.80	32.61	27.39	34.36	34.73	30.63	36.35	39.97	29.09	29.27	28.44	19
20	28.12	28.65	32.61	27.40	34.38	34.70	30.54	36.60	36.56	29.26	29.51	28.77	20
21	28.19	28.09	32.23	27.37	34.38	34.70	30.66	37.05	33.37	29.31	29.39	28.85	21
22	28.17	27.94	30.50	27.36	34.36	34.95	30.51	36.88	32.25	29.05	29.27	28.96	22
23	28.08	27.89	29.74	27.35	34.35	35.67	30.45	36.57	31.57	28.94	28.87	28.70	23
24	28.11	28.74	29.49	27.33	34.36	35.08	30.59	36.44	31.28	28.81	29.03	28.50	24
25	28.82	29.76	29.35	27.33	34.57	34.99	30.67	36.56	30.65	28.66	28.67	28.54	25
26	29.63	30.12	28.99	27.31	34.50	35.14	30.81	36.48	30.23	28.58	28.22	28.23	26
27	29.54	31.12	28.55	27.30	32.88	34.83	30.93	36.55	30.10	28.81	28.65	28.43	27
28	29.38	31.45	28.34	27.27	32.24	34.56	30.71	36.73	30.11	28.94	28.81	28.23	28
29	29.34	31.61	28.23	27.29		34.56	30.50	36.71	30.16	28.84	28.69	28.46	29
30	29.21	31.70	28.15	27.27		35.11	30.32	36.86	30.08	28.83	28.49	28.47	30
31	28.86		28.08	27.24		34.74		37.15		28.79	28.81		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED
NR - NO RECORD
NE - NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
6-04-75	1015	44.93									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 41 57	121 10 08	SW 2 3S 7E		50.5	12-24-55	OCT 62-DATE	MAR 50-SEP 62	1950	1962	-0.63	USC&GS
								1963	1969	0.37	USC&GS
								1970		0.00	USC&GS

Station located on left bank 9.35 miles upstream from mouth, 0.6 mile northwest of Bacon and Gates Road Junction, 3.7 miles southwest of Ripon. It is possible that backwater from San Joaquin River could affect the stage-discharge relationship. Flow regulated by upstream reservoirs and diversions. Drainage area is 1,094 square miles.

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1975	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	13.67	14.71	13.77	13.34	14.14	13.74	16.38	12.11	14.98	11.67	10.65	11.31	1
2	13.74	14.83	13.93	13.21	14.09	13.66	15.79	11.92	15.85	11.59	10.59	11.12	2
3	13.44	15.14	14.16	12.44	13.03	13.76	15.07	11.98	16.49	11.49	10.59	11.10	3
4	13.25	15.24	14.64	13.45	13.36	13.46	14.42	12.86	17.20	11.59	10.67	11.00	4
5	13.16	15.18	14.57	13.70	14.67	13.66	14.05	13.55	17.39	11.63	10.62	11.26	5
6	12.90	14.58	14.62	13.30	15.94	13.85	13.93	13.58	16.99	11.73	10.50	11.60	6
7	12.74	13.78	14.90	12.53	16.75	14.24	14.10	13.83	17.22	11.71	10.58	11.95	7
8	12.71	13.58	14.96	13.56	17.06	14.63	14.28	14.00	17.38	11.53	10.64	12.12	8
9	12.65	13.57	14.92	13.65	17.03	14.86	14.88	13.94	17.65	11.68	10.69	12.06	9
10	12.46	13.55	14.82	13.75	16.74	15.00	15.11	13.89	17.83	11.62	10.72	11.89	10
11	12.25	13.50	14.77	13.87	16.81	15.07	15.10	13.56	17.75	11.27	10.82	12.08	11
12	12.58	13.49	14.75	13.88	16.98	15.61	14.96	13.44	17.34	11.17	10.76	12.20	12
13	12.80	13.50	14.72	13.34	16.95	15.79	14.74	13.30	16.10	11.16	10.63	12.46	13
14	12.80	13.53	14.71	12.56	17.56	15.73	14.54	13.58	16.17	11.08	10.55	12.50	14
15	12.68	13.47	14.72	13.52	18.40	16.31	14.20	13.75	17.07	10.98	10.48	12.49	15
16	12.36	13.51	14.72	13.84	18.28	16.26	13.79	13.90	17.53	10.96	10.49	12.64	16
17	12.78	13.57	14.61	13.95	17.71	16.20	13.33	14.02	17.62	11.09	10.70	12.50	17
18	13.02	13.57	14.20	14.00	17.01	16.35	13.17	14.20	17.78	11.12	11.27	12.45	18
19	12.93	13.57	13.96	13.90	16.64	16.05	13.02	14.31	17.59	11.24	11.85	12.48	19
20	12.82	13.56	13.82	13.37	16.76	16.30	13.05	14.32	16.59	11.26	12.06	12.67	20
21	12.85	13.35	13.75	12.61	16.55	16.53	13.13	14.54	14.51	11.23	11.89	12.72	21
22	12.93	13.24	13.46	13.74	16.27	16.56	12.99	14.64	13.55	11.02	11.78	12.72	22
23	13.45	13.18	12.79	14.07	15.99	16.96	12.83	14.54	13.14	10.76	11.77	12.68	23
24	14.07	13.18	12.46	14.20	15.41	16.94	12.72	14.45	12.82	10.78	11.73	12.76	24
25	14.35	13.38	12.73	14.19	15.03	16.48	12.61	14.51	12.62	11.02	11.57	12.82	25
26	14.56	13.48	12.94	13.97	15.47	16.84	12.62	14.57	12.32	10.79	11.11	13.02	26
27	14.57	13.64	12.49	13.30	15.00	16.91	12.69	14.53	12.17	10.88	11.02	13.07	27
28	14.52	13.74	13.32	12.62	14.20	16.46	12.71	14.58	12.11	10.79	11.03	13.06	28
29	14.62	13.74	13.53	13.68	16.57	16.57	12.51	14.57	12.07	10.69	10.92	13.02	29
30	14.77	13.67	13.21	13.98	16.74	12.28	14.62	14.62	12.04	10.71	10.88	12.93	30
31	14.82		12.53	14.11		16.83		14.70		10.75	11.06		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
2-15	1845	18.60									

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 40 34	121 15 55		79000	27.75	12-9-50	JUL 22-DEC 23		1931	1959	8.4	USED
				32.81a	12-9-50	JAN 24-FEB 25					
			52600	34.55	1-27-69	JUN 25-OCT 28		1931	1959	5.06	USCGS
						MAY 29-DATE		1959		0.00	USCGS

Station located on left bank 20 feet downstream from the Durham Ferry Highway Bridge, 2.4 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles. Natural flow of stream affected by storage reservoirs, power developments, ground water withdrawals and diversions for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with DWR radio telemeter. The records are furnished by the U. S. Geological Survey.

a Reflects present datum. The gage height of 32.81 feet does not represent the maximum discharge of 79,000 cfs as water was bypassing the station through levee breaks upstream from station.

TABLE B-10
CORRECTIONS AND REVISIONS
TO
PREVIOUSLY PUBLISHED REPORTS

This table shows corrections and revisions to surface water measurement data of the Bulletin No. 130 series and Bulletin No. 23 series not previously published.

For other corrections and revisions to previously published reports dating back to 1924, refer to Page 160, Table B-11, Bulletin No. 130-66, Volume IV.

TABLE B-10 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR			CHANGE		
PAGE	MILE & BANK	NAME	ITEM	FROM	TO
132		Bulletin No. 23-58 Surface Water Flow for 1958 Table 149 San Joaquin River at Whitehouse	July acre-feet Water Year Total	247300 1292000	24730 1069000
B-19		Bulletin No. 130-63 Hydrologic Data 1963 Volume IV, San Joaquin Valley Table B-9 Miami Creek near Oakhurst	Maximum Discharge 1963 Water Year	1140E	804
B-29		Table B-19 Bear Creek near Cathay	Maximum Discharge of record	1140E	804
B-29		Table B-19 Bear Creek near Cathay	Maximum Discharge flow 1963 Water gage ht. Year	3850E 9.98	4170E 10.07
B-98	8 (12.00-13.75)	Table B-87 Tranquillity Irrigation District	Maximum Discharge flow of record gage ht. Diversions	3850E 9.98	4170E 10.07
			Oct.	204	204
			Nov.		
			Dec.		
			Jan.		52
			Feb.	1777	2005
			March	4066	4112
			April		383
			May		2291
			June		7200
			July	557	7454
			Aug.	6306	6659
			Sept.	1414	1414
			Total	14324	31774
68		Bulletin No. 130-64 Hydrologic Data 1964 Volume IV, San Joaquin Valley Table B-4 Miami Creek near Oakhurst	Maximum Discharge of record	1140E	804
78		Table B-4 Bear Creek near Catheys Valley	Maximum Discharge flow of record gage ht.	3850E 9.98	4170E 10.07
		Bulletin No. 130-65 Hydrologic Data 1965 Volume IV, San Joaquin Valley			
61		Table B-5 Miami Creek near Oakhurst	Maximum Discharge of record	1140E	804
72		Table B-5 Bear Creek near Catheys Valley	Maximum Discharge flow of record gage ht. date	4166E 9.97 1-7-65	4170E 10.07 2-1-63
82		Table B-5 Orestimba Creek near Crows Landing	Daily Mean Discharge		
			Jan. 8	0.0	B NR
			9	0.0	A NR
			10	0.0	C NR
			11	0.0	K NR
			12	0.0	W NR
			13	0.0	A NR
			14	0.0	T NR
			15	0.0	E NR
			16	0.0	R NR
			17	0.0	NR
115	112.55R	Table B-7 Diversions - San Joaquin River	L. A. Thompson	Delete Entire Line	
117	233.63L	Table B-7 United Packing Company	Diversions Total	omitted in 1965	700
		Bulletin No. 130-66 Hydrologic Data 1966 Volume IV, San Joaquin Valley			
76		Table B-4 Bear Creek near Catheys Valley	Maximum Discharge flow of record gage ht. date	4166E 9.97 1-7-65	4170E 10.07 2-1-63
78		Table B-4 Burns Creek at Hornitos	Maximum Discharge 1966 Water Year	1330E	2020E

TABLE B-10 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR				CHANGE	
PAGE	MILE & BANK	NAME	ITEM	FROM	TO
86		Table B-4 Merced River at Cressey	Minimum discharge Month 1966 Water Year	7	8
130		Table B-7 Turlock Irrigation District	Total acre-feet diverted - January Average cubic feet per second Monthly use in percent of seasonal Total Diversion Average cubic feet per second	18033 293 3.5 516577 714	1833 29.8 0.4 500377 691
133		Table B-9 Exports from Tuolumne River	Total acre-feet Oct. Nov. Dec. Jan. Feb. March April May June July Aug. Sept. Total	15655 12685 14987 7812 11913 15566 11060 15208 18388 21398 21312 19498 185482	15696 12721 15023 7851 11946 12607 11106 15260 18438 21462 21379 19552 183041
		*Bulletin No. 130-67 Hydrologic Data 1967 Volume IV, San Joaquin Valley			
122	255.34R	Table B-6 Sycamore Island Stock Ranch 5	Diversions Sept. Total	40 278	17 255
		Bulletin No. 130-68 Hydrologic Data 1968 Volume IV, San Joaquin Valley			
104		Table B-5 Laguna Water District	Diversions May June July Aug. Total		90 110 110 90 400
107	1.9 L 2.9 L	Table B-5 J. V. Steenstrup Estate	Name	J. V. Steen- strup Estate	John & Robert Bogetti
		Bulletin No. 130-69 Hydrologic Data 1969 Volume IV, San Joaquin Valley			
54		Table B-4 San Joaquin River near Dos Palos	Maximum Discharge Month 1969 Water Year Day Time Gage Ht. Flow	3 11 2300 10.42 5560	6 16 0800 10.38 5900
78		Table B-4 Merced River below Snelling	Daily Mean Discharge Jan. 21 Monthly Mean Monthly acre-feet	946 189 11620	980 190 11680
87		Table B-4 San Joaquin River at Maze Road Bridge	Maximum Discharge 1969 Water Year Gage Ht. Time Maximum Discharge of record Last line Feet Hours Date	42800 36.46 0400 42800 36.46 37.00 2400 2-28-69	45550 36.87 0300 45550 36.87 38.31 2000 1-27-69
95		Table B-4 Tule River below Porterville	Maximum Discharge 1969 Water Year Discharge Gage Ht. Month Day Time		3066 5.35 2 26 1200
130		Table B-12 San Joaquin River at Fremont Ford Bridge	Maximum Discharge of Record Gage Ht. Date Footnote a	8260b 68.02 2-27-69 Delete	9180b 68.05 2-26-69 Entire Note

* Additional corrections for 1967 are listed on page 121

TABLE B-10 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

PAGE	MILE & BANK	LOCATION OF ERROR NAME	ITEM	CHANGE	
				FROM	TO
133		Table B-12 San Joaquin River near Newman	Maximum Discharge of Record CFS	33300a	34700a
140		Table B-12 San Joaquin River at Maze Road Bridge	Maximum Discharge Gage Ht. of Record Date	37.00a 2-28-69	38.31a 1-27-69
		Bulletin No. 130-70 Hydrologic Data 1970 <u>Volume IV, San Joaquin Valley</u>			
95		Table B-4 Woods-Central Ditch near Porterville	Daily Mean Discharge June 5 Monthly Acre-feet Water Year Total	132.0 7604 43386	27.5 7397 43179
102		Table B-6 Firebaugh Canal Company Firebaugh Canal Company Fremont Ford Bridge to Gravelly Ford	Diversion for April Total Diversion for Year Total for Reach	9657 51595 897796	7370 49308 895509
108		Table B-6 Woods-Central Ditch	Diversions June Total	7604 43386	7397 43179
117		Table B-11 San Joaquin River at Fremont Ford Bridge	Maximum Discharge CFS Gage Ht. Date Footnote a	8260b 68.02 2-27-69 Delete Entire Note	9180b 68.05 2-26-69
120		Table B-11 San Joaquin River near Newman	Maximum Discharge of Record CFS	33300a	34700a
		Bulletin No. 130-73 Hydrologic Data 1973 <u>Volume IV, San Joaquin Valley</u>			
78		Table B-3 Friant-Kern Canal Delivery to Tule River	Discharge Monthly March Acre-feet April Acre-feet	3906 0	0 3906
		Bulletin No. 130-67 Hydrologic Data 1967 <u>Volume IV, San Joaquin Valley</u>			
128		Merced Irrigation District, Main Canal			
		Table B-7 Diversion and Acreage Irrigated East Side Canals and Irrigation Districts	Monthly Acre-feet Jan Feb Mar	0 0 504	1227 1100 1575
		<u>Sacramento-San Joaquin Water Supervisor</u>	Total Acre-feet	548009	551407
110		Bulletin No. 23-55 for 1955	Daily Mean Discharge Dec 23 Dec 24	22800 56600	19800 48300
		Table 158 Stanislaus River at Riverbank	Monthly Mean Discharge Dec	4853	4489
			Monthly Acre-feet Dec	298400	276000
			Total Acre-feet Year	513424	491024
			Maximum Discharge CFS	85800	61800
		Bulletin No. 130-67 Hydrologic Data 1967 <u>Volume IV, San Joaquin Valley</u>			
96		Table B-4 Stanislaus River at Riverbank	Monthly Acre-feet Jan	93670 97420	68470 91350

APPENDIX C
GROUND WATER MEASUREMENTS

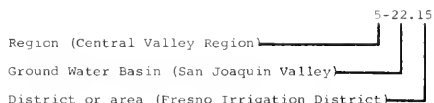
INTRODUCTION

The Department of Water Resources cooperates with the U. S. Geological Survey, U. S. Bureau of Reclamation, irrigation and water storage districts, and other local agencies for the systematic observation of ground water levels. The Department obtains approximately 13,000 water level measurements annually on some 7,500 wells in the San Joaquin Valley. The period of record for these wells varies from one to over 40 years. In preparation of the ground water maps most of the well measurements were used. However, because significant trends in water level fluctuations can be indicated by a representative sample, a selection was made of approximately 500 wells for reporting of actual measurements.

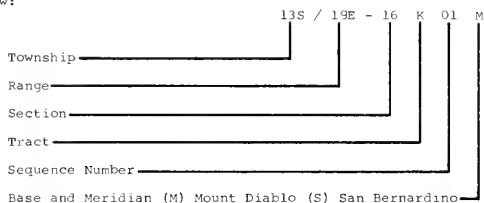
This appendix presents ground water measurement data on these wells for the period October 1, 1974, through September 30, 1975. These wells were selected as being representative of all the wells measured in the area and are designated as selected wells. Their selection is based on a number of factors, including areal distribution, length of water level record, frequency of measurements, conformity with respect to water level fluctuation in the ground water basin or area in a confined aquifer, or in a zone of shallow depth, and availability of a log, mineral analyses, and production record.

Two numbering systems are used by the Department to facilitate processing of water level measurement data. The two systems are the Region and Basin Designation and the State Well Numbering System as described below.

The regions used in this report are geographic areas defined in Section 13040 of the Water Code. That portion of California covered by this volume comprises the southern portion of Central Valley Region No. 5. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and district or area as follows:



The State Well Numbering System is based on township, range, and section subdivisions of the Public Land Survey. The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below:



This number identifies and locates the well. In the example, the well is in Township 13 South, Range 19 East, Tract K of Section 16, located in the Mount Diablo Base and Meridian. A section is divided into 40-acre tracts as follows:

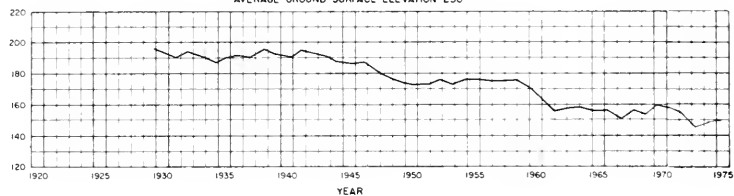
D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Sequence numbers in a tract are generally assigned in chronological order. The example designates the first well to be assigned a number in Tract K.

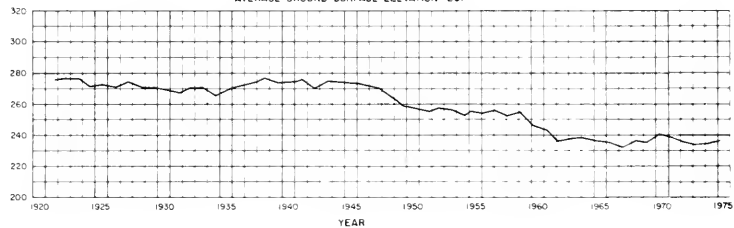
Figure C-1. FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION IN FEET U.S. C. G. DATUM

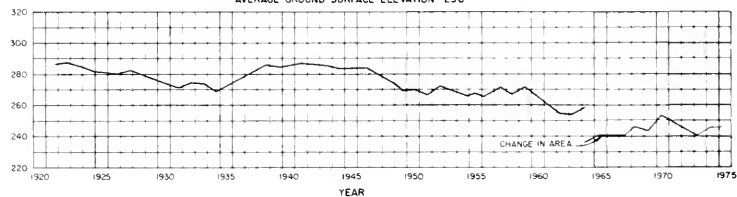
MADERA GROUND WATER AREA
AREA 342.6 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 230'



FRESNO GROUND WATER AREA
AREA 404.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 291'



CONSOLIDATED GROUND WATER AREA
AREA 243.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 296'



CENTERVILLE BOTTOMS GROUND WATER AREA
AREA 18.15 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 363'

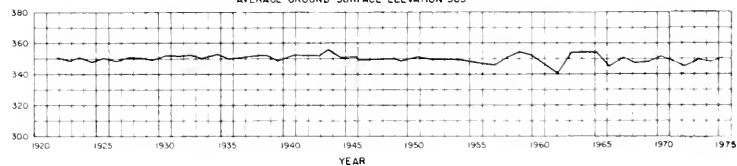
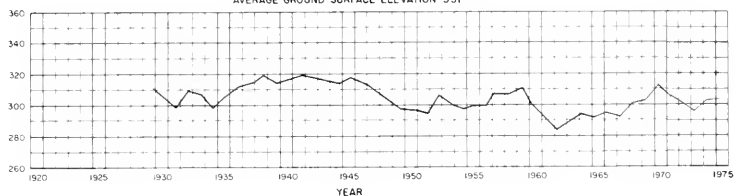


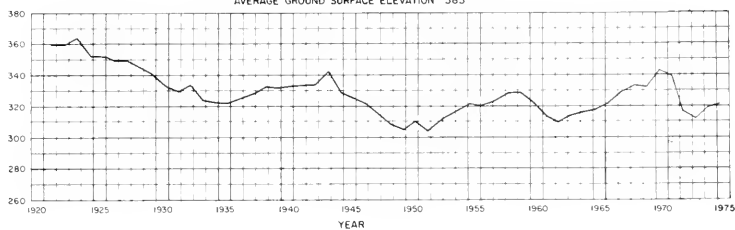
Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION IN FEET
USCGS DATUM

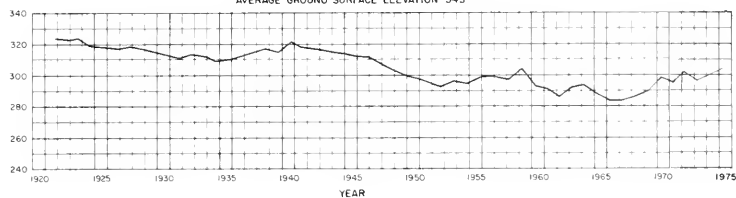
ALTA GROUND WATER AREA
AREA 190.93 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 331'



IVANHOE GROUND WATER AREA
AREA 17.37 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 348'



OUTSIDE IVANHOE GROUND WATER AREA
AREA 76.65 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 345'



MILL CREEK GROUND WATER AREA
AREA 128.25 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 305'

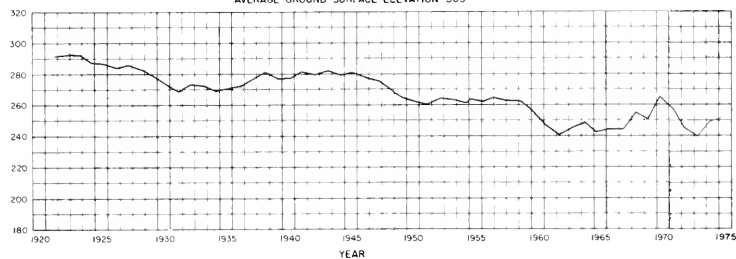
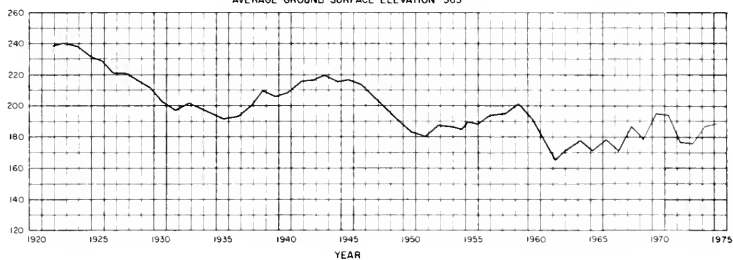


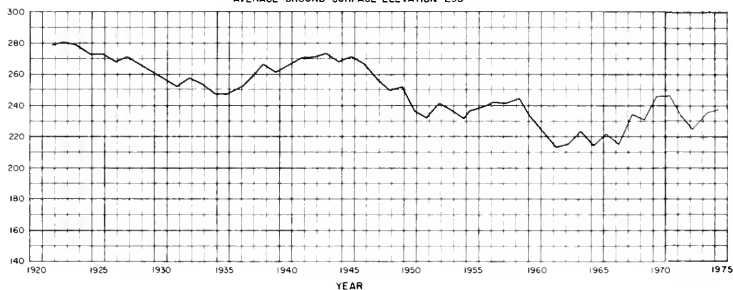
Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION
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U.S.C. & G.S.
DATUM

TULARE GROUND WATER AREA
AREA 121.07 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 363'



ELK BAYOU GROUND WATER AREA
AREA 67.6 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 295'



LINDSAY-EXETER GROUND WATER AREA
AREA 136.43 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 377'

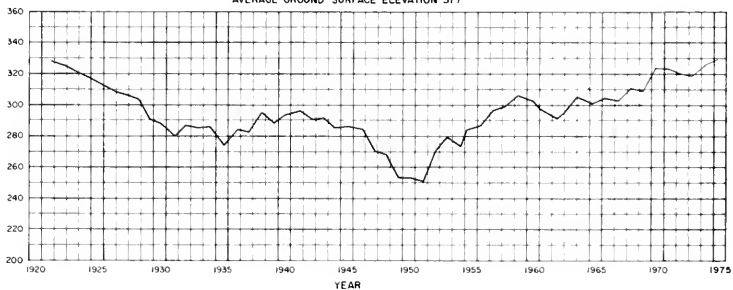


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

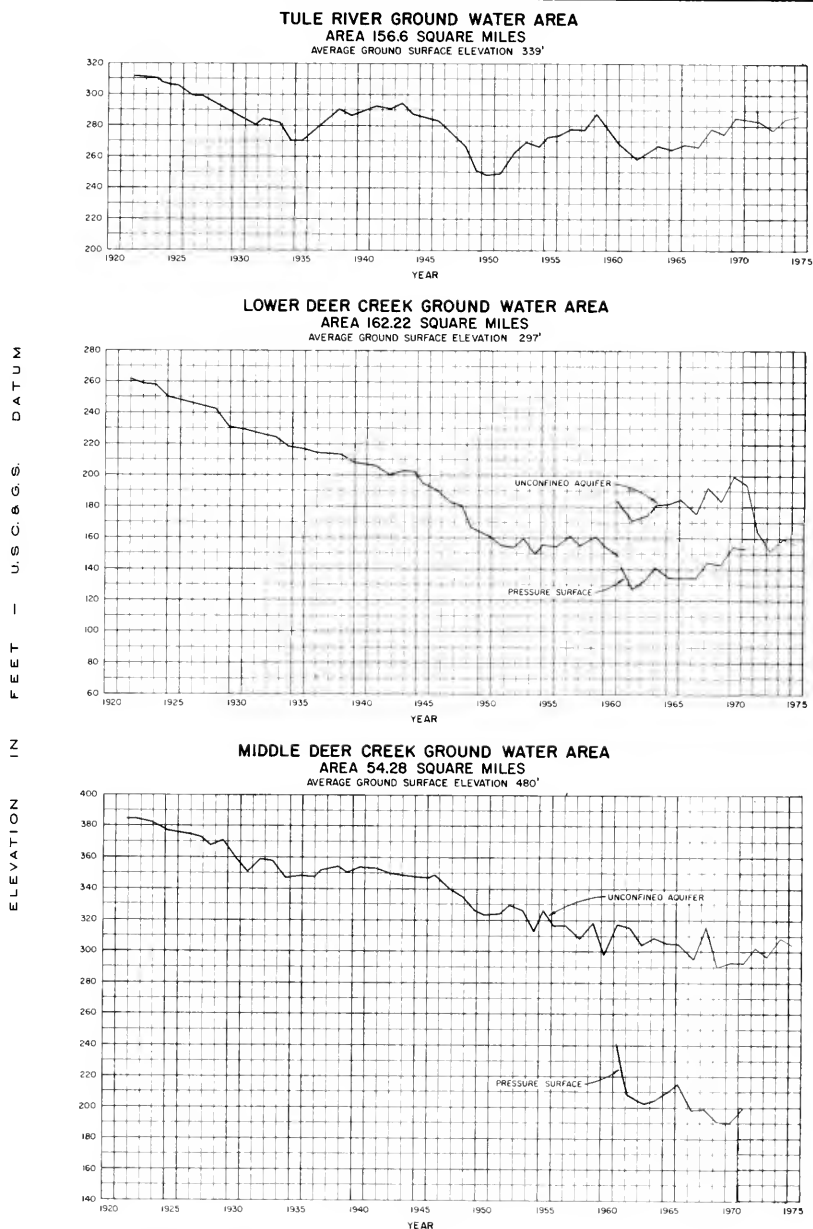
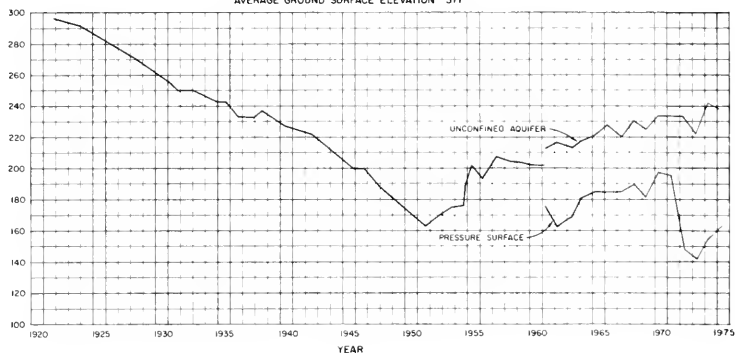


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION IN FEET U.S. GEOGRAPHIC DATUM

DELANO-EARLIMART GROUND WATER AREA
 AREA 140.0 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 371'



Mc FARLAND-SHAFTER GROUND WATER AREA
 AREA 306.0 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 340'

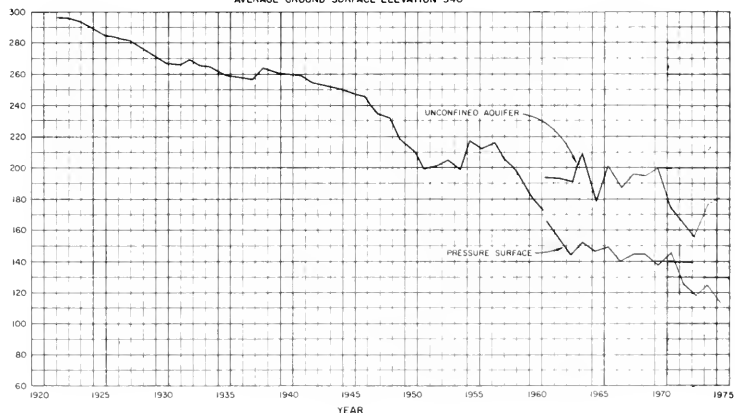


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

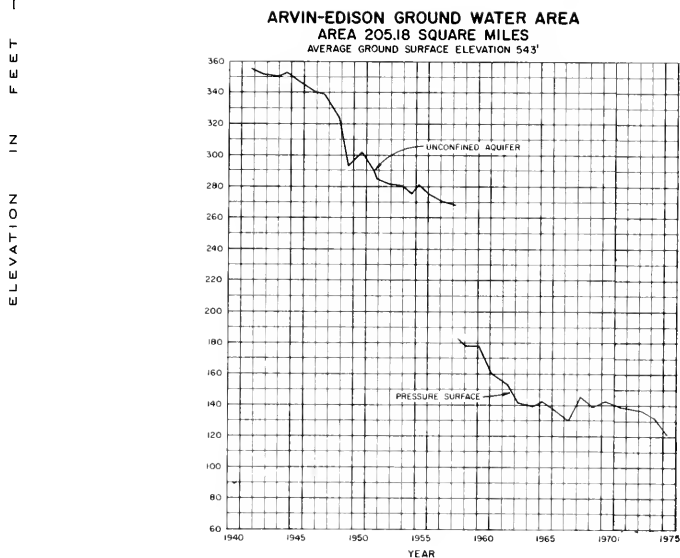
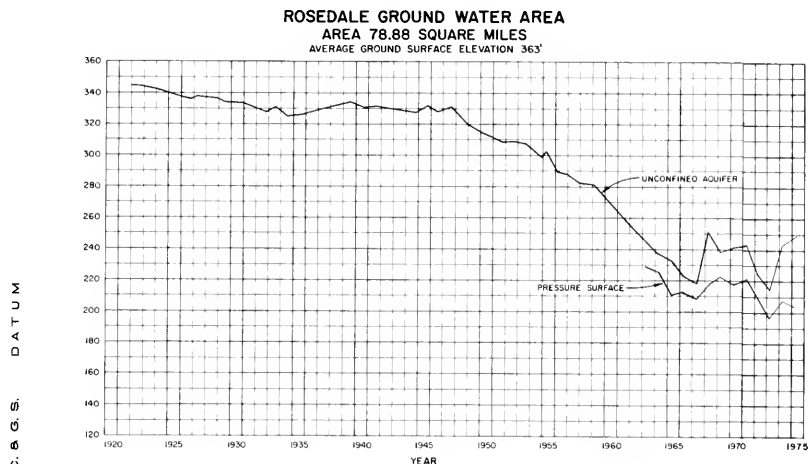


Figure C-2. FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

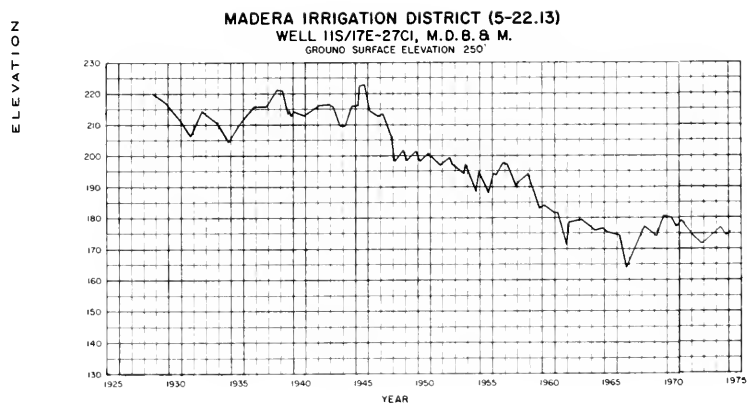
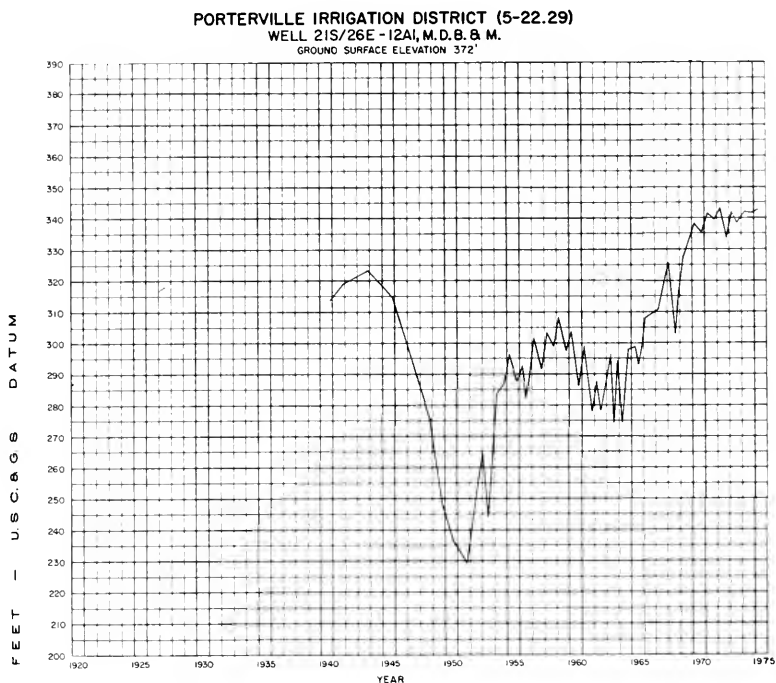
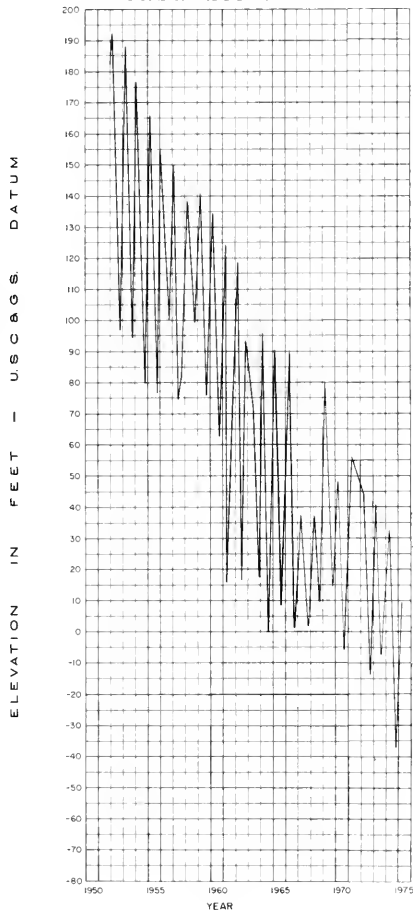
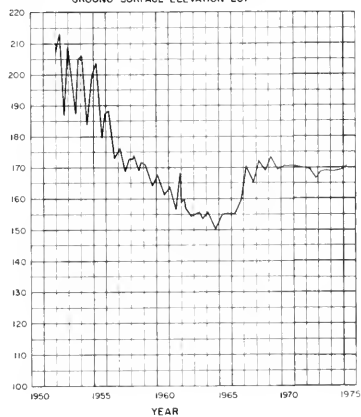


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

**SEMITROPIC WATER STORAGE DISTRICT-
DEEP ZONE (5-22.43)
WELL 27S/23E-1R4, M.D.B. & M.
GROUND SURFACE ELEVATION 267'**



**SEMITROPIC WATER STORAGE DISTRICT-
SHALLOW ZONE (5-22.43)
WELL 27S/23E-1R1, M.D.B. & M.
GROUND SURFACE ELEVATION 267'**



**MERCED IRRIGATION DISTRICT
(5-22.09)**

**WELL 7S/11E-1H1, M.D.B. & M.
GROUND SURFACE ELEVATION 118'**

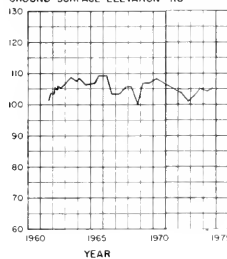


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

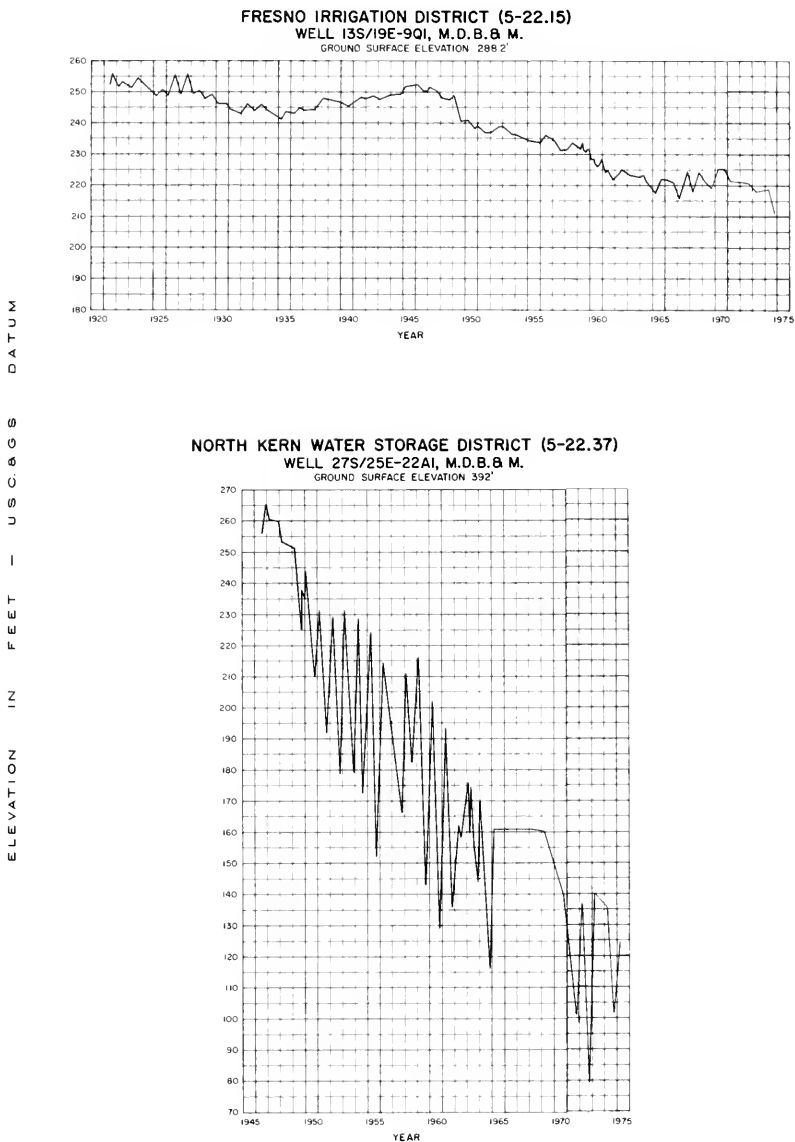
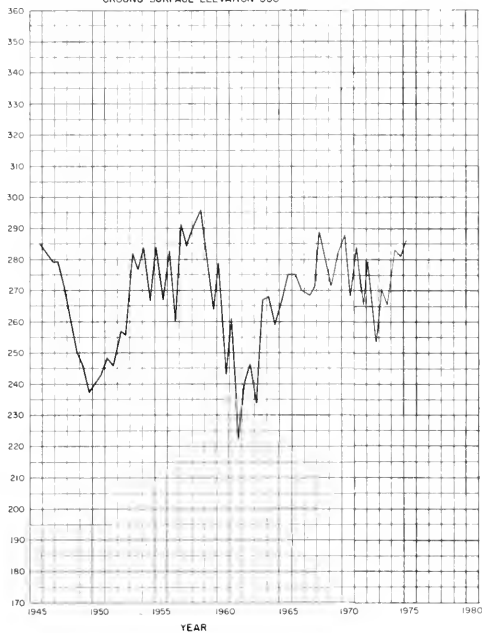


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION
IN
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USCGS
DATUM

LOWER TULE RIVER IRRIGATION DISTRICT (5-22.30)
WELL 21S/26E-7A1, M.D.B. & M.
 GROUND SURFACE ELEVATION 330'



OAKDALE IRRIGATION DISTRICT (5-22.06)
WELL 2S/10E-33J1, M.D.B. & M.
 GROUND SURFACE ELEVATION 165'

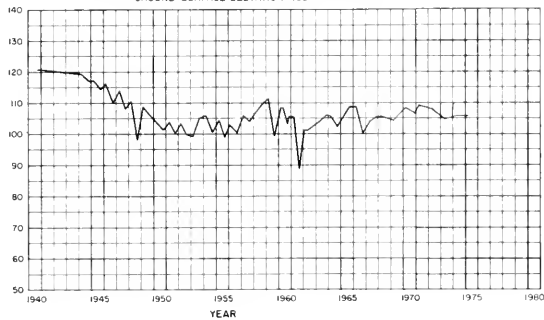
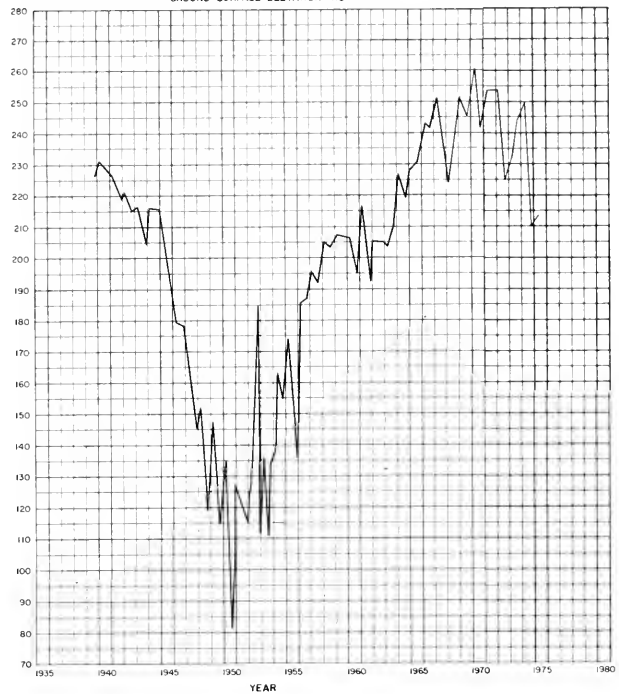


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION
IN
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USC&GS
DATUM

SOUTHERN SAN JOAQUIN MUNICIPAL UTILITY DISTRICT (5-22.36)
WELL 25S/26E-28H2, M.D.B. & M.
 GROUND SURFACE ELEVATION 415'



AVENAL-Mc KITTRICK AREA (5-22.44)
WELL 25S/19E-20Q2 M.D.B. & M.
 GROUND SURFACE ELEVATION 480'

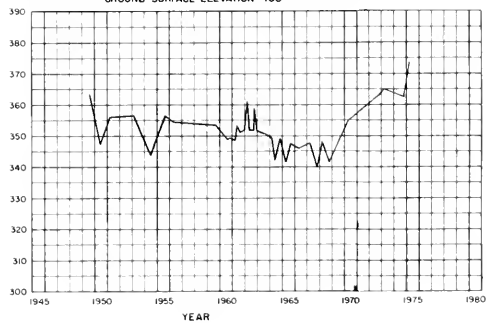
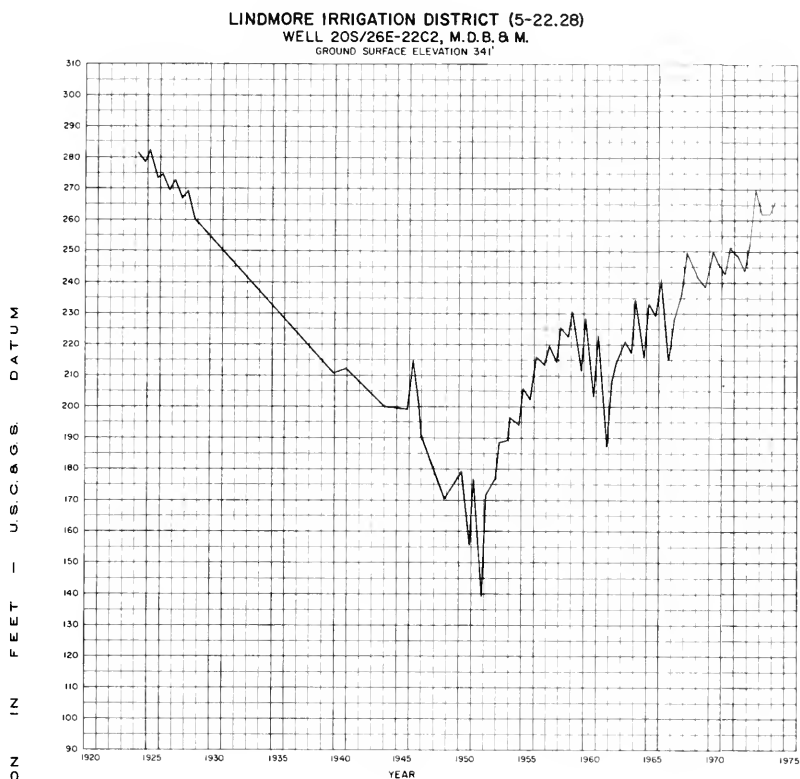
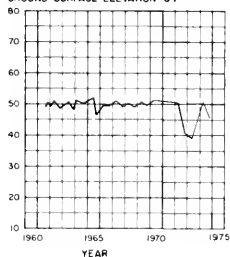


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



MODESTO IRRIGATION DISTRICT
(5-22.07)
WELL 3S/8E-22C2, M.D.B. & M.
 GROUND SURFACE ELEVATION 64'



TURLOCK IRRIGATION DISTRICT
(5-22.08)
WELL 5S/9E-4A1, M.D.B. & M.
 GROUND SURFACE ELEVATION 70'

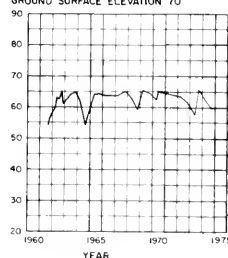
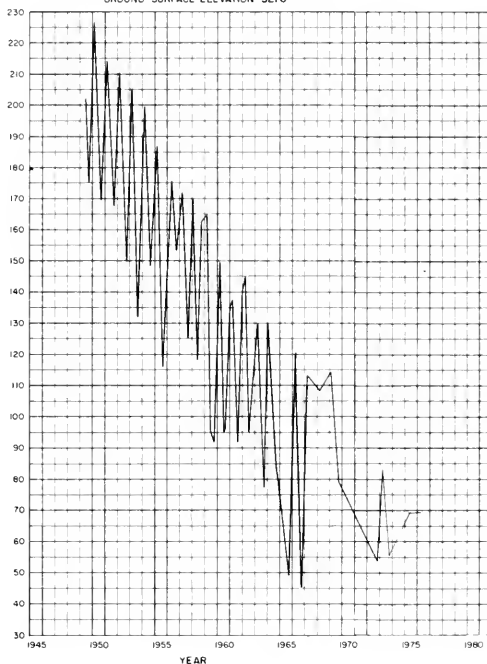


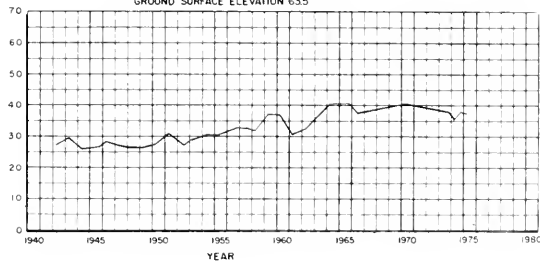
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION
IN
FEET
— U.S.C.G.S.
DATUM

SHAFTER-WASCO IRRIGATION DISTRICT (5-22.38)
WELL 27S/24E-35C1, M.D.B. & M.
 GROUND SURFACE ELEVATION 321.8'



DELTA-MENDOTA AREA-SHALLOW ZONE (5-22.11)
WELL 3S/6E-25D1, M.D.B. & M.
 GROUND SURFACE ELEVATION 63.5'



ELEVATION IN FEET - USCGS DATUM

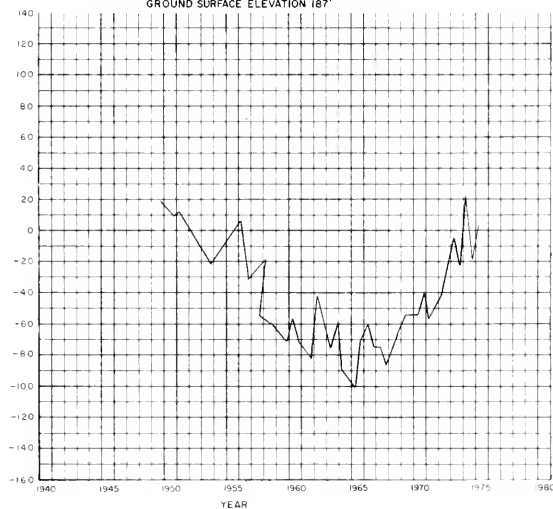
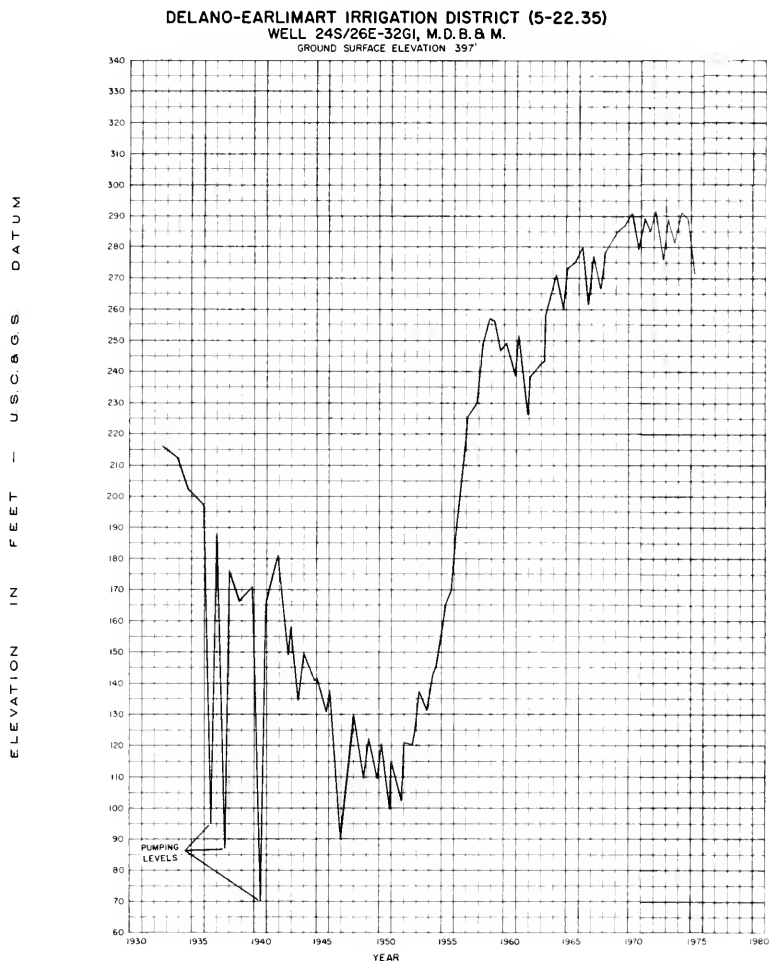


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

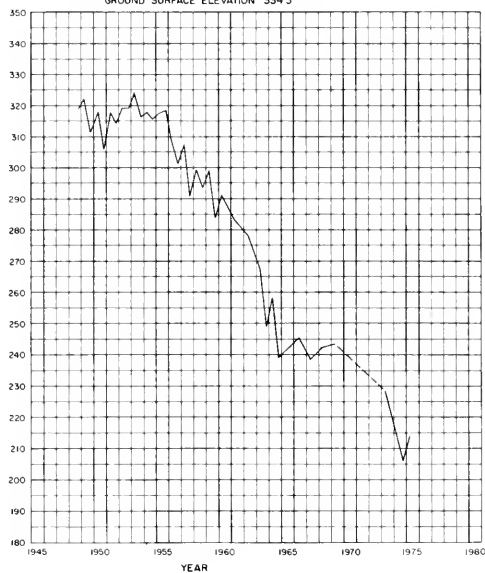


DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION
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USC&GS
DATUM

KERN RIVER DELTA AREA (5-22.40)
WELL 30S/26E-26K1, M.D.B. & M.
 GROUND SURFACE ELEVATION 334.3'



STONE CORRAL
IRRIGATION DISTRICT (5-22.22)
WELL 17S/26E-7R1, M.D.B. & M.
 GROUND SURFACE ELEVATION 364'

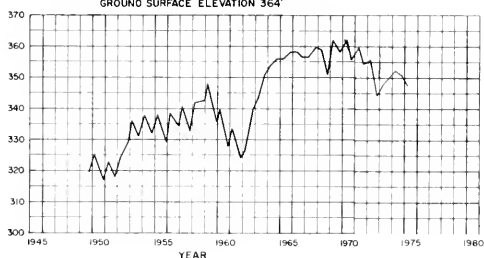
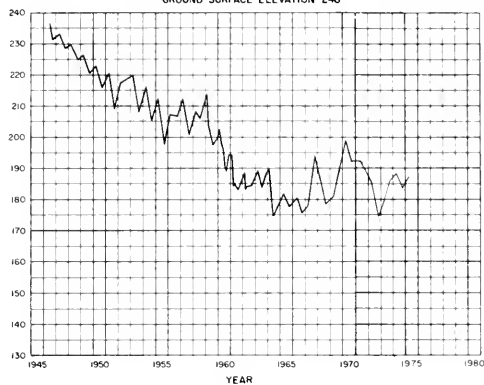


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION
IN
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USCGS
DATUM

CONSOLIDATED IRRIGATION DISTRICT (5-22.18)
WELL 16S/20E-22N1, M.D.B. & M.
 GROUND SURFACE ELEVATION 248'



SAUCELITO IRRIGATION DISTRICT (5-22.32)
WELL 22S/26E-15J1, M.D.B. & M.
 GROUND SURFACE ELEVATION 371'

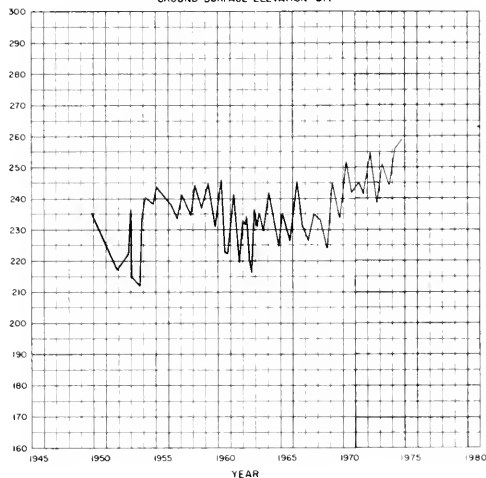


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

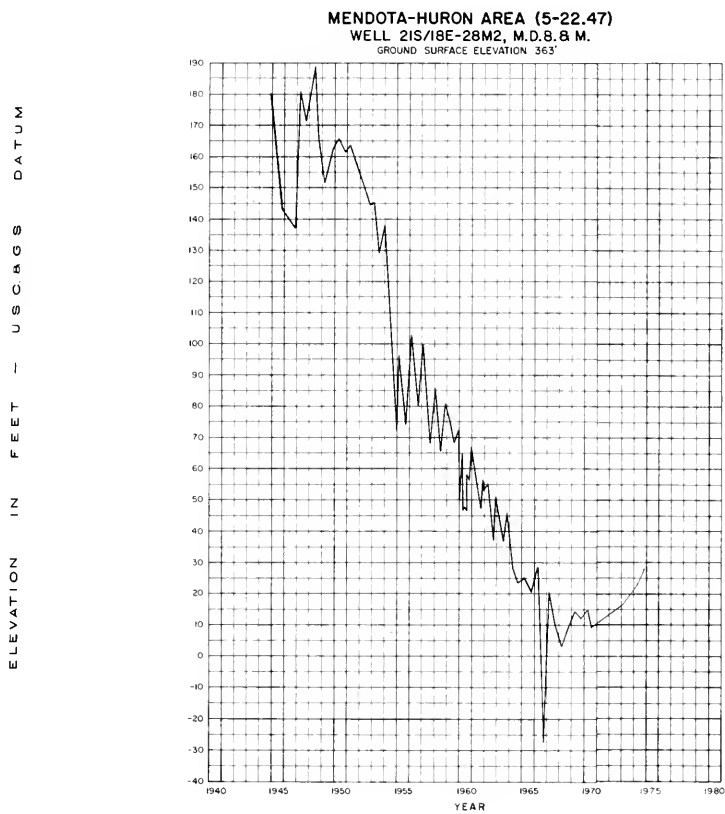


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET
USCGS DATUM

FRESNO SLOUGH AREA (5-22.17)
WELL 17S/18E-23A2, M.D.B.&M.

GROUND SURFACE ELEVATION 200'



EXETER IRRIGATION DISTRICT (5-22.26)
WELL 18S/27E-29DI, M.D.B.&M.

GROUND SURFACE ELEVATION 447'

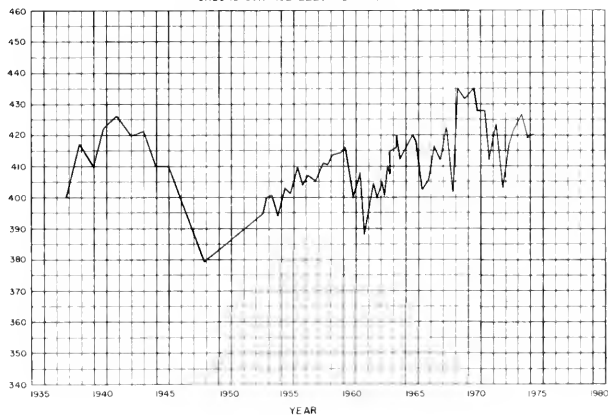
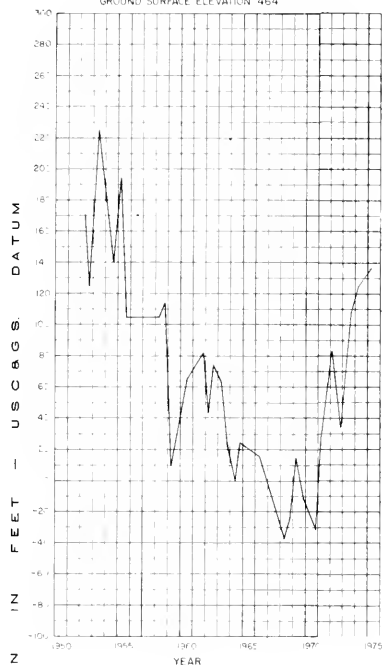
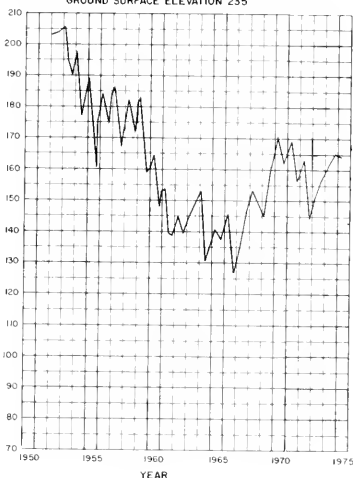


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

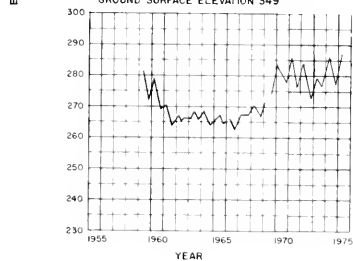
EDISON-MARICOPA AREA (5-22.41)
WELL 11N/21W-1N1, S.B.B. & M.
 GROUND SURFACE ELEVATION 464'



KAWEAH DELTA
WATER CONSERVATION DISTRICT (5-22.24)
WELL 19S/22E-19A2, M.D.B. & M.
 GROUND SURFACE ELEVATION 235'



IVANHOE
IRRIGATION DISTRICT (5-22.23)
WELL 17S/25E-35MI, M.D.B. & M.
 GROUND SURFACE ELEVATION 349'



TULARE IRRIGATION DISTRICT (5-22.25)
WELL 20S/23E-10J1, M.D.B. & M.
 GROUND SURFACE ELEVATION 248'

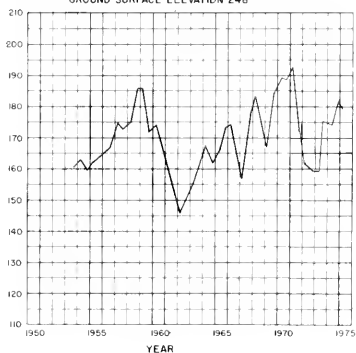


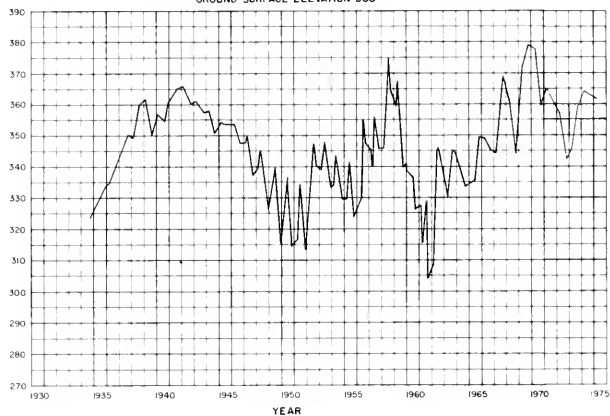
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET U.S.C. & G.S. DATUM

ALTA IRRIGATION DISTRICT (5-22.19)

WELL 15S/24E-22D1, M.D.B.&M.

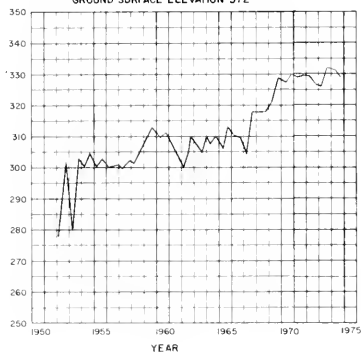
GROUND SURFACE ELEVATION 388'



**LINDSAY-STRAITHMORE
IRRIGATION DISTRICT (5-22.27)**

WELL 20S/27E-6B1, M.D.B.&M.

GROUND SURFACE ELEVATION 372'



**ORANGE COVE
IRRIGATION DISTRICT (5-22.21)**

WELL 16S/25E-4C2, M.D.B.&M.

GROUND SURFACE ELEVATION 415'

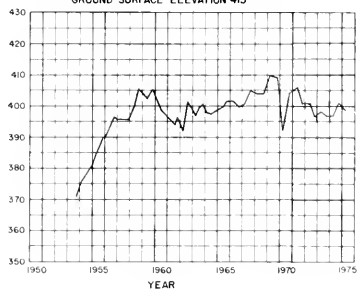


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

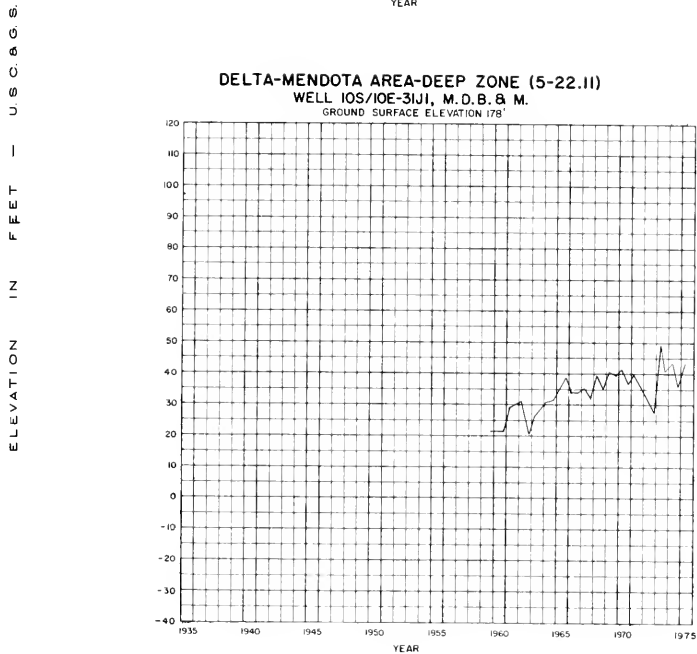
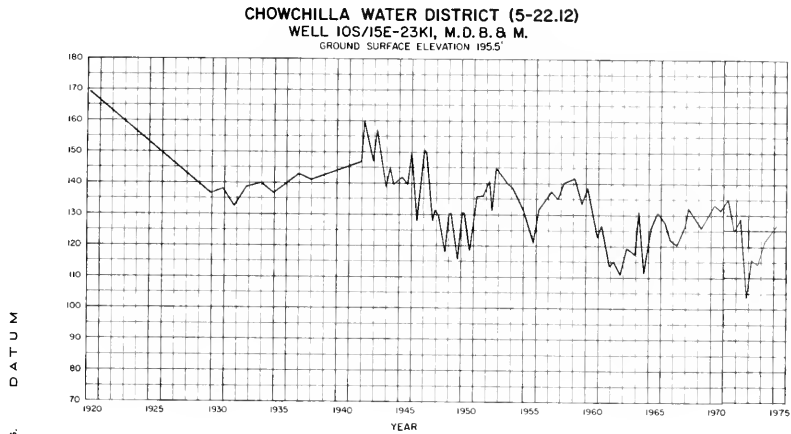


TABLE C-1
CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1974 - Spring 1975

Ground Water Districts or Areas		Number of Wells Considered in Analysis ^{a/}	Change in Feet
Name	Number		
San Joaquin Valley	5-22.00		
Oakdale Irrigation District	5-22.06		- 1.9
Modesto Irrigation District	5-22.07		+ 0.3
Turlock Irrigation District	5-22.08		+ 1.0
Merced Irrigation District	5-22.09		- 0.6
El Nido Irrigation District	5-22.10		- 0.6
Delta-Mendota Area	5-22.11	250	+ 1.2
Chowchilla Water District	5-22.12		+ 1.1
Madera Irrigation District	5-22.13		+ 0.6
West Chowchilla-Madera Area	5-22.14		- 4.4
Fresno Irrigation District	5-22.15		- 0.9
City of Fresno	5-22.16	60	- 0.4
Fresno Slough Area	5-22.17		- 0.3
Consolidated Irrigation District	5-22.18		+ 1.6
Alta Irrigation District	5-22.19		+ 3.6
Lower Kings River Area	5-22.20		
Shallow Zone			0.0
Deep Zone			+ 5.6
Orange Cove Irrigation District	5-22.21	62	- 1.7
Stone Corral Irrigation District	5-22.22	10	- 2.2
Ivanhoe Irrigation District	5-22.23		- 0.5
Kaweah-Delta Water Conservation District	5-22.24		+ 1.9
Tulare Irrigation District	5-22.25		+ 3.2
Exeter Irrigation District	5-22.26		- 1.4
Lindsay-Strathmore Irrigation District	5-22.27		- 3.7
Lindmore Irrigation District	5-22.28		+ 0.8
Porterville Irrigation District	5-22.29	16	- 1.4
Lower Tule River Irrigation District	5-22.30		
Shallow Zone			+ 1.7
Deep Zone			Insufficient data to compute change
Vandalia Irrigation District	5-22.31	5	- 0.2
Saucelito Irrigation District	5-22.32		
Shallow Zone			+ 0.2
Deep Zone			Insufficient data to compute change
Pixley Irrigation District	5-22.33		
Shallow Zone			- 5.1
Deep Zone			- 0.1

TABLE C-1 (Cont.)
CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1974 - Spring 1975

Ground Water Districts or Areas		Number of Wells Considered in Analysis ^{a/}	Change in Feet
Name	Number		
San Joaquin Valley (Continued)			
Alpaugh-Allensworth Area	5-22.34		
Shallow Zone			- 5.8
Deep Zone			+ 0.5
Delano-Earlimart Irrigation District	5-22.35		
Shallow Zone			+ 0.9
Deep Zone		Insufficient data to compute change	
Southern San Joaquin Municipal Utility District	5-22.36		
Shallow Zone			+ 8.7
Deep Zone			- 1.9
North Kern Water Storage District	5-22.37		
Shallow Zone			+ 4.1
Deep Zone			-12.6
Shafter-Wasco Irrigation District	5-22.38		
Deep Zone			- 5.7
City of Bakersfield	5-22.39	20	- 2.1
Kern River Delta Area	5-22.40		
Shallow Zone			+ 0.4
Deep Zone			- 3.4
Edison-Maricopa Area	5-22.41		
Deep Zone			- 0.4
Buena Vista Water Storage District	5-22.42		
North Area			-10.3
South Area		Insufficient data to compute change	
Semitropic Water Storage District	5-22.43		
Shallow Zone			- 2.7
Deep Zone			-10.3
Avenal-McKittrick Area	5-22.44	27	- 1.2
Tulare Lake-Lost Hills Area	5-22.45	19	+ 2.8
Corcoran Irrigation District	5-22.46		
Shallow Zone			+ 1.6
Deep Zone			+ 5.8
Mendota-Huron Area	5-22.47		
Deep Zone			+17.8
Poso Resources Conservation District	5-22.48		+ 0.3
San Luis Canal Company	5-22.49		- 0.3

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1974 -- Spring 1975

Ground Water Districts or Areas		Number of Wells Considered in Analysis ^{a/}	Change in Feet
Name	Number		
San Joaquin Valley (Continued)			
Terra Bella Irrigation District	5-22.50	10	+ 0.1
Merced Bottoms	5-22.54		+ 1.1
Centerville Bottoms Area	5-22.64		- 1.9
Garfield Water District	5-22.65	11	+ 0.2
Kings County Water District	5-22.66		
Shallow Zone			+ 0.8
Deep Zone		Insufficient data to compute change	
Pleasant Valley Area	5-22.69	18	+ 8.3

^{a/} Average changes were determined by planimetering ground water contour maps. Where numbers appear changes were computed by numerical averages.

TABLE C-2

CHANGE IN AVERAGE GROUND WATER LEVEL FROM
1921 TO 1951 AND 1951 TO 1975
IN 18 GROUND WATER AREAS IN THE SAN JOAQUIN VALLEY

Name of Ground Water Area*	Area in square miles	Irrigation and Other Water Districts Included in the Ground Water Area	Net change in water level 1921-51 ^{a/} in feet	Net change in water level 1951-75 ^{b/} in feet
Madera	342.6	Madera Irrigation District and Chowchilla Water District	- 24.1 ^{c/}	-22.3
Fresno	404.0	Fresno Irrigation District and City of Fresno	- 22.4	-16.8
Consolidated	243.0	Consolidated Irrigation District	- 19.0	+ 3.8
Centerville Bottoms	18.1	-----	+ 1.0	- 0.1
Alta	190.9	Alta Irrigation District	- 17.2 ^{c/}	+ 9.1
Ivanhoe	17.4	Ivanhoe Irrigation District	- 55.9	+18.2
Outside Ivanhoe	76.6	Stone Corral Irrigation District and a portion of Alta Irrigation District	- 28.5	+ 9.1
Mill Creek	128.2	Portions of Kings County Water District and Kaweah Delta Water Conservation District	- 31.1	-10.1
Tulare	121.1	Tulare Irrigation District	- 59.1	+ 9.4
Elk Bayou	67.6	Portion of Kaweah Delta Water Conservation District	- 47.8	+ 5.0
Lindsay-Exeter	136.4	Exeter Irrigation District, Lindsay- Strathmore Irrigation District, and Lindmore Irrigation District	- 77.7	+82.7
Tule River	156.6	Porterville Irrigation District, portions of Lower Tule River Irrigation District, and Saucelito Irrigation District	- 62.5	+42.6
Lower Deer Creek	162.2	Portions of Lower Tule River Irrigation District, Saucelito Irrigation District, and Delano-Earlimart Irrigation District	-106.7	-27.3 ^{e/} -10.2 ^{f/}
Middle Deer Creek	54.3	Terra Bella Irrigation District	- 61.8	- 3.4 ^{e/} -40.6 ^{f/}
Delano-Earlimart	140.0	Portions of Delano-Earlimart Irrigation District and Southern San Joaquin Municipal Utility District	-133.8	+28.0 ^{e/} +32.3 ^{g/}
McFarland-Shafter	306.0	North Kern Water Storage District, Shafter- Wasco Irrigation District, and a portion of Southern San Joaquin Municipal Utility District	- 99.0	-12.3 ^{e/} -54.1 ^{g/}
Rosedale	78.9	-----	- 36.3	-46.2 -25.7 ^{g/}
Arvin-Edison	205.2	Arvin-Edison Water Storage District	- 69.9 ^{d/}	-49.7 ^{g/}

^{a/} 1951 was the first year of substantial deliveries from the Friant-Kern Canal.

^{b/} Fall 1951 to spring 1975.

^{c/} Fall 1929 to fall 1951.

^{d/} Fall 1941 to fall 1951.

^{e/} Unconfined aquifer, spring 1961 to spring 1975; only one aquifer reported prior to 1961.

^{f/} Change shown for 1951 to 1971; insufficient data in pressure aquifer to compute changes for 1971-75.

^{g/} Pressure surface, spring 1961 to spring 1975; only one aquifer reported prior to 1961.

* These areas are shown on Plate 2.

TABLE C-3

GROUND WATER LEVELS AT WELLS

An explanation of the column headings and the code symbols follows:

State Well Number--refer to the explanation under Introduction, page 125.

Aquifer--Qualifications are based on the latest geologic knowledge of the aquifer system and construction of individual wells. The code symbols are as follows:

- | | |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 0 Unqualified due to lack of well construction and/or geology information. | 4 Unconfined, outside Corcoran Clay area. |
| 1 Unconfined, perforated above the Corcoran Clay. | 5 Confined, aquitard other than Corcoran Clay. |
| 2 Confined, perforated below the Corcoran Clay. | 6 Composite, perforated above and below aquitard outside Corcoran Clay area. |
| 3 Composite, perforated above and below the Corcoran Clay. | |

Ground surface elevation represents the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) of the ground surface at the well. Elevations are usually taken from topographic maps and the accuracy is controlled by topographic standards.

Date is the date the depth measurement was made. Where 00 appears in the date, day of measurement is unknown.

Ground surface to water surface in feet is the measured depth in feet from the ground surface to the water surface in the well.

Other code symbols used in this column are as follows:

NO MEASUREMENT (NM)

- | | |
|----------------------------|----------------------------|
| 0 Measurement discontinued | 5 Unable to locate well |
| 1 Pumping | 6 Well has been destroyed |
| 2 Pump house locked | 7 Special |
| 3 Tape hung up | 8 Casing leaking or wet |
| 4 Can't get tape in casing | 9 Temporarily inaccessible |

The words FLOW and DRY are shown in this column to indicate a flowing or dry well.

Water surface elevation is the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) of the water surface in the well. It was derived by machine computation by subtraction of the depth measurement from the reference point elevation.

Agency supplying data represents the code numbers for the agencies supplying water level data.

In this list of water levels, the agency furnishing the measurement is noted. The agencies and code numbers assigned to them are as follows:

Agency Code	Agency	Agency Code	Agency
5001	U. S. Bureau of Reclamation	5605	Exeter Irrigation District
5050	Department of Water Resources	5606	Lindsay-Strathmore Irrigation District
5129	Kings County Water District	5607	Lindmore Irrigation District
5133	Kern County Water Agency	5608	Porterville Irrigation District
5200	City of Fresno	5609	Lower Tule Irrigation District
5520	Oakdale Irrigation District	5611	Saucelito Irrigation District
5521	Modesto Irrigation District	5612	Pixley Irrigation District
5524	Turlock Irrigation District	5613	Delano-Earlimart Irrigation District
5525	Merced Irrigation District	5614	Southern San Joaquin Municipal Utility District
5527	El Nido Irrigation District	5616	Shafter-Wasco Irrigation District
5528	Chowchilla Water District	5619	Terra Bella Irrigation District
5529	Poso Resources Conservation District	5620	James Irrigation District
5530	Madera Irrigation District	5622	Garfield Water District
5531	San Luis Canal Company	5631	Fresno Irrigation District
5600	Orange Cove Irrigation District	5636	Consolidated Irrigation District
5601	Stone Corral Irrigation District	5637	Alta Irrigation District
5602	Ivanhoe Irrigation District	5640	Buena Vista Water Storage District
5603	Kaweah Delta Water Conservation District	5644	Arvin-Edison Water Storage District
5604	Tulare Irrigation District		

**TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
OAKDALE I.D.							TUBLOCK I.D.						
5-22.00							6-22.00						
01S/09E-16J01 M		119.0	4-18-75	65.6	53.4	5520	08S/10E-21A01 M		95.6	3-05-77	3.7	91.9	5524
01S/09E-36A01 M		145.0	4-18-75	57.9	87.1	5520	08S/10E-28D01 M		83.6	3-05-75	10.1	73.5	5524
01S/10E-19L01 M		146.5	4-18-75	57.8	88.7	5520	08S/11E-06N01 M		106.2	3-05-75	4.1	102.1	5524
11S/10E-28J01 M		193.0	4-18-75	84.6	108.4	5520	08S/11E-08N01 M		116.2	3-05-75	11.5	104.7	5524
02S/09E-26F01 M		132.0	4-18-75	54.6	77.4	5520	MERCED I.D.						
02S/10E-04H01 M		185.5	4-18-75	79.2	107.3	5520	06S/12E-22N01 M	1	150.0	11-13-74	19.0	131.0	5050
02S/10E-33J01 M		165.0	4-18-75	54.2	105.8	5520	08S/14E-32N01 M	1	178.1	3-04-75	15.1	163.0	5525
02S/11E-24H01 M		218.0	4-18-75	90.5	127.5	5520	07S/10E-01N01 M	1	90.7	3-04-75	7.8	82.9	5525
02S/11E-31N01 M		192.0	4-18-75	77.2	114.8	5520	07S/11E-01N01 M		118.0	11-12-74	14.0	105.0	5050
02S/12E-31K01 M		190.0	4-18-75	41.4	148.6	5520	07S/11E-13N01 M	1	116.6	3-03-75	8.7	107.9	5525
03S/10E-15A01 M		152.0	4-18-75	44.9	107.1	5520	07S/12E-12D01 M	1	144.0	11-12-74	1.0	143.0	5050
03S/11E-18D01 M		162.0	4-18-75	58.1	103.9	5520	07S/12E-12D01 M	1	144.0	11-12-74	1.0	143.0	5050
MODESTO I.D.							5-22.00						
02S/08E-25F01 M		94.0	3-04-75	37.6	56.4	5521	07S/12E-12D01 M	1	147.3	4-03-75	16.9	130.4	5525
02S/09E-30F01 M		93.0	11-13-74	24.0	69.0	5050	07S/13E-26D01 M	1	155.4	11-12-74	11.1	144.3	5050
02S/09E-31D01 M		97.0	3-04-75	34.2	62.8	5521	07S/14E-11N01 M	1	141.8	11-12-74	13.4	128.4	5050
03S/07E-12C01 M		47.0	11-13-74	9.8	37.2	5050	07S/14E-16N01 M	1	187.3	3-05-75	17.5	170.8	5525
03S/07E-35A02 M		40.0	11-13-74	4.1	35.9	5050	08S/12E-01D01 M	1	120.1	3-03-75	7.9	112.2	5525
03S/08E-03N01 M		65.0	3-04-75	16.9	48.1	5521	08S/13E-04N01 M	1	135.0	3-03-75	7.4	127.6	5525
03S/08E-24C02 M		73.0	3-04-75	20.0	53.0	5521	08S/14E-01A01 M	1	197.5	3-04-75	11.4	186.8	5525
03S/09E-08D01 M		92.0	3-04-75	26.2	65.8	5521	08S/14E-10N01 M	1	172.6	11-12-74	8.1	164.5	5050
03S/09E-11N01 M		99.0	3-04-75	23.2	75.8	5521	08S/14E-10N01 M	1	172.6	11-12-74	8.1	164.5	5050
03S/09E-26F01 M		100.0	3-26-75	58.0	42.0	5050	EL RIDO I.D.						
03S/10E-06D01 M		131.1	3-04-75	35.2	97.9	5521	08S/13E-14N01 M		133.0	10-07-74	58.7	74.3	5527
03S/10E-24K01 M		118.0	3-04-75	47.9	70.1	5521	08S/14E-20N01 M		152.0	10-07-74	82.4	69.6	5527
03S/10E-32G01 M		120.0	3-04-75	58.7	61.3	5521	08S/14E-20N01 M		152.0	10-07-74	82.4	69.6	5527
03S/10E-34D01 M		125.0	3-26-75	58.6	66.4	5050	DELTA-MENDOTA AREA						
04S/08E-03F01 M		60.0	3-04-75	16.7	43.3	5521	5-22.11						
TUBLOCK I.D.							04S/06E-04N01 M	2	196.0	10-18-74	164.3	31.7	5607
5-22.08							04S/06E-04N01 M	2	196.0	4-07-75	151.1	44.9	5001
04S/08E-22P01 M	1	55.0	11-13-74	10.0	45.0	5050	04S/06E-09N01 M	1	168.3	10-14-74	118.4	47.9	5607
04S/08E-27D01 M		55.0	3-05-75	10.8	44.2	5524	04S/06E-09N01 M	1	168.3	4-07-75	115.3	51.0	5001
04S/09E-21N01 M		75.0	3-05-75	9.7	65.3	5524	04S/07E-27N01 M	1	68.0	10-23-74	22.6	45.4	5607
04S/10E-21F01 M	1	109.0	3-05-75	15.1	93.9	5524	05S/07E-14D01 M	1	130.4	10-22-74	74.1	51.3	5607
04S/11E-29N01 M	1	131.0	3-05-75	DRY		5524	05S/07E-23L01 M	1	138.0	4-08-75	71.6	56.8	5001
04S/11E-31F01 M		128.0	3-05-75	12.1	115.9	5524	05S/07E-23L01 M	1	138.0	10-22-74	82.1	55.9	5607
05S/08E-01N01 M		53.0	3-05-75	5.7	47.3	5524	05S/08E-32F01 M	1	90.9	10-22-74	7.4	83.5	5607
05S/08E-10A01 M		44.0	3-05-75	12.3	31.7	5524	05S/08E-32F01 M	1	90.9	4-06-75	7.4	83.5	5607
05S/09E-04A01 M		70.0	11-13-74	10.0	60.0	5050	06S/07E-12P01 M		248.3	10-17-74	13.2	235.1	5050
05S/09E-14R01 M		75.0	3-05-75	7.2	67.8	5524	06S/07E-12P01 M		248.3	3-26-75	14.5	233.8	
05S/09E-24N01 M		75.0	3-05-75	8.3	66.7	5524	06S/08E-21P02 M	2	133.5	10-17-74	34.0	99.5	5050
05S/09E-28A01 M		63.0	3-05-75	4.7	58.3	5524	06S/08E-21P02 M	2	133.5	3-26-75	32.0	101.5	
05S/09E-34J01 M		64.0	11-13-74	14.3	49.7	5050	06S/08E-27J01 M	1	114.5	10-17-74	41.0	73.5	5050
05S/10E-19P01 M		82.0	3-05-75	6.7	75.3	5524	06S/08E-27J01 M	1	114.5	3-26-75	40.0	68.5	
05S/10E-21P01 M		92.0	3-05-75	10.7	81.3	5524	06S/08E-29J01 M	2	190.0	3-26-75	93.0	97.0	5050
05S/11E-06J02 M	1	124.0	11-13-74	7.0	117.0	5050	07S/08E-22L01 M	1	127.9	10-16-74	41.3	86.6	5050
05S/11E-21N01 M		125.0	3-05-75	10.1	114.9	5524	07S/09E-04R01 M	1	65.5	10-18-74	17.9	48.5	5050
05S/11E-30A01 M		117.0	3-05-75	13.4	103.6	5524	07S/09E-04R01 M	1	65.5	3-27-75	12.0	53.5	
05S/11E-33B01 M		115.5	3-05-75	8.8	106.7	5524	07S/09E-26N01 M	1	68.4	10-16-74	9.2	59.2	5050
06S/09E-15P01 M		69.0	3-05-75	3.8	65.2	5524	07S/09E-26N01 M	1	68.4	3-28-75	5.0	63.4	
							08S/08E-01N01 M	1	123.2	10-15-74	15.5	107.7	5050
							08S/08E-01N01 M	1	123.2	3-25-75	18.5	104.7	
							08S/08E-15J01 M	2	172.8	3-25-75	25.5	147.3	5050
							08S/09E-26H01 M	2	75.0	10-15-74	38.9	36.1	5050
							08S/09E-26H01 M	2	75.0	3-27-75	14.0	61.0	
							08S/09E-26H03 M	1	75.0	10-15-74	5.4	69.6	5050
							08S/09E-26H03 M	1	75.0	3-27-75	1.0	74.0	
							08S/10E-21L04 M		76.0	10-15-74	6.4	69.6	5050
							08S/10E-21L04 M		76.0	3-27-75	1.0	74.0	

**TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
DELTA-MENDOTA AREA							MADERA I.D.						
5-22.11							5-22.13						
09S/09E-24A01 M	1	157.0	10-17-74 3-25-75	9.0 19.0	148.0 138.0	5050	11S/16E-06A01 M	196.0	10-07-74 2-06-75	77.4 66.8	118.4 129.2	5530	
09S/09E-14N01 M		96.0	10-17-74 3-26-75	60.0 35.0	36.0 61.0	5050	11S/16E-10N01 M	204.0	10-07-74 2-06-75	72.0 68.3	135.7 135.7	5530	
09S/09E-18N01 M	2	153.6	10-17-74 3-27-75	32.0 29.0	121.6 124.6	5050	11S/17E-27C01 M	1	250.0	10-04-74 2-05-75	75.4 74.7	174.6 175.3	5530
09S/09E-23L01 M	2	100.0	10-17-74 3-26-74	65.6 47.0	35.0 53.0	5050	11S/18E-20N01 M	1	272.5	10-01-74 1-30-75	88.2 71.4	184.3 201.1	5530
09S/10E-19N01 M	3	84.0	10-17-74 3-28-75	NM-5 34.0		5050	11S/18E-27M01 M	1	284.0	10-01-74 1-30-75	86.3 82.5	197.7 201.5	5530
09S/10E-23J01 M	2	87.0	10-16-74 3-26-75	45.0 34.0	42.0 53.0	5050	12S/16E-23A01 M	205.0	10-03-74 2-03-75	96.7 84.8	108.3 120.2	5530	
09S/11E-09A01 M	1	85.0	3-09-75	6.0	79.0	5531	12S/17E-08G01 M	230.0	10-03-74 2-04-75	90.2 83.6	134.8 146.4	5530	
09S/11E-29F01 M	1	90.0	10-16-74 3-26-75	NM-1 4.0	86.0	5050	12S/17E-21H01 M	1	228.0	10-03-74 2-03-75	72.3 69.0	155.7 159.0	5530
10S/10E-02R01 M	1	99.5	10-16-74 3-26-75	18.0 12.0	81.5 87.5	5050	12S/17E-26C01 M	235.0	10-03-74 2-03-75	60.6 57.2	174.4 177.8	5530	
10S/10E-31G01 M	2	191.1	10-16-74 3-26-75	152.0 162.0	39.1 29.1	5050	12S/17E-34R01 M	234.0	10-03-74 2-03-75	60.9 55.0	173.1 184.0	5530	
10S/10E-32N01 M	1	189.5	10-16-74 3-26-75	89.0 75.0	109.5 114.5	5050	12S/18E-13R01 M	288.0	10-01-74 1-30-75	82.2 80.0	205.8 208.0	5530	
10S/11E-27E02 M	2	101.3	10-16-74 3-27-75	65.0 55.0	36.3 46.3	5050	12S/18E-21G01 M	1	265.0	10-02-74 1-31-75	74.6 71.1	190.4 193.9	5530
11S/10E-11J01 M	1	157.3	10-15-74 3-25-75	12.0 10.0	145.3 147.3	5050	12S/18E-21H01 M	2	270.0	10-02-74 1-31-75	70.3 66.9	196.7 203.1	5530
11S/10E-22D01 M		246.8	10-15-74 3-26-75	98.0 100.0	148.8 146.8	5050	12S/19E-28A01 M	4	107.5	10-06-74 1-27-75	91.2 81.7	216.3 217.7	5001
11S/11E-02J01 M	1	106.0	10-15-74 3-25-75	2.0 2.0	104.0 104.0	5050	WEST CHOWCHILLA-MADERA AREA						
11S/11E-22J02 M	2	114.0	10-15-74 3-25-75	9.5 12.0	104.5 102.0	5050	10S/13E-22R01 M	119.0	9-24-74 1-21-75	26.2 24.1	92.8 94.9	5001	
11S/11E-22Q03 M	3	114.0	10-15-74 3-25-75	13.0 12.0	101.0 102.0	5050	10S/14E-08B03 M	147.0	10-08-74 2-06-75	49.5 40.5	47.5 56.5	5528	
12S/12E-06D01 M	144.0	10-16-74 3-24-75	6.4 5.7	137.6 138.3	5007 5001	10S/14E-31H01 M	130.0	9-24-74 1-21-75	45.8 40.0	84.2 90.0	5001		
12S/12E-25J01 M	181.1	10-17-74 3-25-75	5.7 3.5	175.4 177.6	5007 5001	10S/14E-35F01 M	151.0	10-07-74 1-21-75	93.3 71.2	57.7 71.5	5001		
12S/13E-14N01 M	150.0	10-16-74 3-26-75	23.5 22.1	126.5 127.9	5007 5001	11S/14E-13R01 M	150.0	9-25-74 1-21-75	NM-1 NM-1		5001		
CHOWCHILLA W.D.							11S/15E-33E01 M	156.0	9-25-74 1-21-75	82.6 60.5	73.4 95.5	5001	
09S/14E-25R01 M	1	185.0	10-07-74 1-31-75	67.5 64.5	117.5 120.5	5528	11S/15E-33F01 M	158.0	9-25-74 1-21-75	80.4 57.8	77.6 100.2	5001	
09S/15E-25J02 M	1	230.0	10-01-74 1-31-75	40.0 41.5	190.0 188.5	5528	12S/15E-14L01 M	1	167.0	9-26-74 1-23-75	NM-7 67.3	94.7	5001
09S/15E-27A01 M		216.5	11-12-74 3-12-75	119.0 NM-0	97.5	5050	13S/14E-02C01 M	144.0	10-02-74 2-03-75	89.5 71.3	104.5 122.7	5530	
09S/16E-22R01 M		267.0	10-03-74 1-30-75	45.5 47.0	221.5 220.0	5528	FRESNO I.D.						
09S/17E-19L01 M	1	292.0	10-03-74 1-30-75	113.5 112.5	178.5 179.5	5528	12S/20E-14A01 M	4	365.0	9-27-74 2-04-75	NM-9 92.0	273.0	5001
09S/17E-25R01 M	1	338.0	9-27-74 1-21-75	76.2 61.9	261.8 274.1	5001	12S/21E-34D01 M	4	367.7	10-01-74 2-01-75	44.4 42.3	343.3 345.4	5631
09S/18E-33G01 M	4	362.0	9-27-74 1-21-75	58.5 54.8	303.5 307.2	5001	12S/22E-21E01 M	4	473.0	9-24-74 1-23-75	15.3 15.0	457.7 458.0	5001
10S/14E-01A01 M	179.0	10-07-74 1-31-75	75.7 75.0	103.3 106.0	5528	13S/17E-22B01 M	1	220.8	10-01-74 2-01-75	34.0 31.1	186.8 189.5	5631	
10S/14E-01R02 M	177.0	10-07-74 1-31-75	68.5 68.0	108.5 109.0	5528	13S/17E-33D01 M	211.0	10-10-74 1-23-75	56.0 53.1	155.0 157.9	5001		
10S/14E-24R01 M	167.0	10-07-74 2-04-75	86.5 85.0	80.5 82.0	5528	13S/18E-10F01 M	258.0	10-10-74 1-24-75	46.5 44.0	211.5 209.0	5001		
10S/15E-02Q01 M	212.5	10-02-74 1-31-75	114.0 110.5	98.5 102.0	5528	13S/18E-14D01 M	245.0	10-10-74 1-24-75	56.9 56.0	188.1 189.0	5001		
10S/15E-21K01 M	195.5	10-02-74 2-05-75	71.5 69.0	124.0 126.5	5528	13S/19E-04Q01 M	4	288.2	10-01-74 2-01-75	77.0 88.0	211.2 263.1	5631	
10S/15E-27D03 M	184.0	10-02-74 2-05-75	79.5 72.5	104.5 111.5	5528	13S/19E-16K01 M	290.0	10-10-74 1-24-75	81.5 76.5	208.5 213.5	5001		
10S/16E-09E01 M	232.0	10-10-74 2-04-75	95.0 92.9	137.0 139.1	5528	13S/20E-12H01 M	343.4	10-01-74 2-01-75	NM-1 76.5		266.9	5631	
10S/14E-29R01 M	1	208.0	10-02-74 2-03-75	84.0 77.5	124.0 130.5	5528	13S/21E-31P01 M	4	406.5	10-01-74 2-01-75	30.9 34.5	375.6 372.0	5631
MADERA I.D.							14S/19E-04H01 M	4	227.4	10-02-74 2-01-75	72.8 65.9	154.6 161.5	5631
10S/14E-16D01 M	4	390.0	9-27-74 1-21-75	16.7 23.1	373.3 366.9	5001	14S/19E-20B02 M	4	245.3	10-02-74 2-01-75	48.5 NM-0	196.5	5631
							14S/20E-06J01 M	1	279.4	2-01-75	NM-1	5631	

TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
FRESNO I.D.							ALTA I.D.						
155/20E-13E02 M		262.5	10-02-74 2-01-75	32.8 36.1	249.7 246.4	5631	165/24E-21J01 M	1	336.0	10-01-74 2-03-75	NN-1 27.1	308.9	5637
CITY OF FRESNO							5-22.14						
135/20E-21J01 M		310.0	4-00-75	96.3	213.7	5200	165/25E-29A01 M	4	364.0	10-02-74 2-03-75	36.1 29.3	327.9 334.7	5637
135/20E-23B01 M		325.0	4-00-75	93.2	231.8	5200	175/22E-25A01 M	4	275.0	10-02-74 2-04-75	47.9 38.1	227.1 236.9	5637
135/20E-25E01 M		299.3	10-03-74 4-01-75	87.0 91.5	212.3 207.8	5200	175/22E-25J01 M	4	275.0	10-02-74 2-04-75	44.3 42.9	230.7 232.1	5637
135/20E-35H02 M		305.3	4-00-75	80.5	224.8	5200	175/24E-15A03 M	3	302.0	10-03-74 1-22-75	30.1 22.2	271.9 279.8	5601
145/20E-10M01 M		291.4	10-03-74 4-00-75	76.1 74.5	215.3 216.9	5200	175/25E-10C01 M	4	335.0	10-03-74 2-03-75	31.3 31.4	303.7 303.6	5637
FRESNO SLOUGH AREA							5-22.17						
145/15E-25H02 M		160.0	10-11-74 1-23-75	10.5 26.4	124.5 133.6	5001	175/25E-18B01 M	4	321.0	10-03-74 2-03-75	51.8 49.6	269.2 271.4	5637
145/16E-03C01 M		177.0	10-10-74 1-22-75	76.5 67.5	100.5 109.5	5001	LOWER KINGS RIVER AREA						
145/16E-08D01 M		165.0	10-11-74 1-22-75	NN-1 42.2	122.8	5001	175/19E-14J01 M		217.0	11-07-74 2-21-75	81.0 84.0	136.0 133.0	5050
145/16E-28D01 M	1	164.0	10-11-74 1-13-75	33.0 28.3	131.0 135.7	5001	175/20E-20D01 M	1	223.0	11-07-74 2-21-75	68.0 72.0	155.0 151.0	5050
145/17E-25A01 M	1	210.0	10-15-74 1-13-75	113.3 101.4	96.7 108.1	5620	175/21E-11J01 M		277.0	11-06-74 2-13-75	37.0 23.0	220.0 234.0	5050
155/16E-12C03 M		169.5	11-07-74 1-16-75	40.0 34.9	129.5 124.7	5620	185/19E-35J02 M	3	211.0	11-06-74 2-18-75	116.0 110.0	95.0 101.0	5050
155/17E-22B01 M	1	185.0	10-02-74	NN-1	5620	185/20E-1A01 M	1	240.0	11-06-74 2-19-75	7.5 8.0	222.5 222.0	5050	
155/18E-07A02 M		204.0	10-17-74 1-15-75	126.3 NN-5	77.7	5620	185/21E-10B01 M		254.0	11-06-74 1-30-75	64.0 62.7	190.0 191.3	5050
165/18E-03J01 M		206.0	2-24-75	NN-1	5050	185/19E-25A01 M	1	208.0	11-06-74 2-18-75	5.4 2.0	202.6 206.0	5050	
165/18E-33P01 M		195.0	2-21-75	152.0	43.0	5050	ORANGE COVE I.D.						
165/19E-34P01 M		220.0	11-07-74 2-21-75	125.0 115.0	95.0 105.0	5050	145/24E-29C02 M	4	430.5	10-03-74 2-04-75	NN-1 41.5	389.0	5000
175/17E-12H01 M	1	149.0	12-19-74	150.0	49.0	5050	145/25E-30D01 M	1	510.0	9-30-74 1-20-75	24.0 24.4	486.0 485.9	5001
175/18E-23A02 M	1	200.0	11-07-74 2-20-75	79.0 95.0	121.0 105.0	5050	155/24E-14H01 M	4	415.0	10-01-74 2-04-75	24.8 27.4	390.2 382.6	5000
CONSOLIDATED I.D.							165/25E-04C02 M	4	415.0	10-04-74 2-05-75	14.0 16.2	401.0 398.8	5600
145/22E-22N01 M	4	355.7	10-01-74 2-03-75	27.7 27.8	328.0 327.9	5601	STONE CORRAL I.D.						
155/19E-24N01 M	4	245.7	10-01-74 2-03-75	83.9 81.2	161.8 164.5	5601	175/25E-01D01 M	1	355.0	10-03-74 2-03-75	NN-4 NN-4		5637
155/20E-28A01 M		264.0	11-00-75	NN-0	5636	175/26E-07B01 M		364.0	10-07-74 1-23-75	13.1 16.3	350.9 347.7	5619 5601	
155/21E-15M01 M	4	301.0	10-01-74 2-03-75	26.6 24.6	274.2 276.4	5601	IVANHOE I.D.						
155/22E-16A01 M	4	337.0	10-01-74 2-04-75	23.6 25.2	312.4 311.8	5601	175/25E-27B01 M	4	350.0	10-01-74 2-04-75	77.2 71.7	272.8 278.3	5602
155/22E-29D01 M	4	321.0	10-01-74 2-04-75	24.3 27.9	296.7 293.1	5601	175/25E-35M01 M	4	549.0	10-01-74 2-04-75	70.9 61.5	278.1 287.5	5602
165/19E-14A01 M	4	235.0	10-01-74 2-04-75	109.5 99.4	125.5 135.6	5601	175/25E-16D01 M	4	365.0	10-01-74 2-04-75	13.4 11.7	301.6 303.5	5602
165/20E-22N01 M	4	248.0	10-02-74 2-04-75	64.2 60.5	183.8 187.5	5601	175/26E-32B01 M	4	385.0	10-01-74 2-04-75	12.5 17.1	322.5 327.9	5602
165/21E-22B01 M	4	271.0	10-02-74 2-04-75	43.1 40.3	227.9 230.7	5636	175/26E-34D01 M	4	416.0	10-01-74 2-04-75	12.2 10.5	353.8 355.5	5602
165/22E-23B01 M	4	297.0	10-02-74 2-04-75	21.5 21.9	275.5 275.1	5636	KAWAH-DELTA W.C.O.						
175/22E-03C01 M	4	286.0	10-02-74 2-04-75	19.2 20.6	266.8 265.4	5636	175/25E-15P01 M	1	340.0	10-03-74 1-22-75	82.4 75.2	257.6 264.8	5001
ALTA I.D.							175/26E-17B02 M	1	385.0	10-03-74 1-23-75	14.7 22.0	368.3 363.0	5001
145/23E-36R01 M	4	391.0	10-01-74 1-31-75	46.8 47.3	344.2 341.7	5637	175/27E-34P01 M	1	470.0	10-04-74 1-23-75	12.7 13.0	457.3 457.0	5001
145/24E-11P01 M	4	395.0	10-01-74 1-31-75	19.0 46.8	376.0 348.2	5637	185/22E-30E02 M	3	248.0	10-01-74 2-13-75	95.0 89.0	153.0 154.0	5603
155/23E-23A02 M	4	358.0	10-01-74 1-31-75	41.5 42.4	316.5 315.6	5637	145/23E-12H01 M		282.5	10-02-74 2-20-75	NN-4 47.8		5603
155/24E-22D01 M	4	388.0	10-01-74 1-31-75	25.4 26.3	362.6 361.7	5637	185/23E-34A01 M		271.0	9-23-74 2-11-75	112.7 96.7	158.3 174.3	5129
165/23E-23E01 M	4	314.0	10-04-74 2-15-75	21.0 21.6	293.0 292.4	5637	145/24E-26A02 M	4	112.0	10-12-74 2-21-75	11.0 NN-1	31.0	5603

TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
KAWAHEE-DELTA M. I.							PORTERVILLE I.D.						
5-22-24							5-22-29						
18S/25E-12A01 M	4	36.0	10-04-74	61.5	301.5	5605	21S/26E-12A01 M	372	10-01-74	75.1	341.7	5608	
18S/25E-13P01 M	4	39.0	10-04-74	33.5	305.0	5603			2-07-75	29.1	342.9		
			2-26-75	24.0	314.0		21S/27E-21C01 M	439.0	10-11-74	17.5	391.5	5608	
18S/26E-27E01 M	4	38.0	10-04-74	NM-1	367.0	5605			2-07-75	NM-5			
			2-25-75	23.0	367.0		21S/27E-28E01 M	4	420.0	10-01-74	24.1	395.9	5608
18S/26E-30R01 M	4	38.0	10-04-74	15.5	351.5	5603			2-07-75	19.9	400.1		
			2-25-75	19.5	347.5		22S/26E-01301 M	4	395.0	10-12-74	72.8	322.2	5608
19S/22E-01N02 M	1	245.0	10-10-74	61.5	183.5	5601			2-07-75	69.1	325.9		
			2-20-75	64.5	180.5		22S/27E-06D01 M	4	347.0	2-1-75	50.5	346.5	5608
19S/22E-14E01 M	1	234.1	4-14-74	75.3	159.3	5629	22S/27E-10A01 M	4	455.0	10-02-74	NM-0		5608
			2-06-75	75.0	154.3								
19S/27E-01P01 M	1	318.0	1-10-74	67.0	251.0	5603	22S/27E-14A01 M	4	432.0	10-01-74	15.9	416.1	5608
			2-21-75	68.0	250.0				2-06-75	18.2	413.8		
19S/26E-14R02 M	1	441.0	6-23-74	40.1	250.9	5601	LOWER TULE RIVER I.D.						
			1-20-75	63.1	277.5		5-22-10						
20S/22E-10C01 M	1	227.0	10-10-74	88.0	139.0	5603	21S/23E-22201 M	1	221.5	10-10-74	54.5	162.5	5603
TULARE I.D.									2-14-75	57.8	164.0		
5-22-25							21S/24E-15H01 M	1	253.0	1-17-74	NM-4		5609
19S/23E-14R01 M	1	270.0	10-03-74	NM-1	200.0	5604			2-19-75	2-19-75			
			2-11-75	70.0	200.0		21S/24E-31D01 M	230.0	10-17-74	62.5	167.5	5609	
19S/23E-32H01 M	1	250.5	10-03-74	75.0	175.5	5604			2-18-75	65.1	164.9		
			2-11-75	74.0	176.5		21S/24E-35M01 M	251.0	10-15-74	82.2	168.8	5609	
19S/24E-16P01 M	1	290.0	10-03-74	67.0	203.0	5604			2-18-75	75.0	176.0		
			2-12-75	76.0	214.0		21S/25E-08R01 M	286.0	10-18-74	85.9	200.1	5609	
19S/24E-27U01 M	1	290.0	10-01-74	82.5	207.5	5604			2-14-75	62.5	223.5		
			2-12-75	NM-1			21S/26E-06G01 M	322.0	10-09-74	66.4	255.6	5609	
19S/25E-17A02 M	4	328.0	10-01-74	47.5	280.5	5604			2-12-75	56.0	266.0		
			2-08-75	49.5	278.5		21S/26E-11E01 M	350.0	10-08-74	36.1	313.3	5609	
20S/23E-08B02 M	1	241.0	10-04-74	82.5	158.5	5603			2-12-75	36.1	313.9		
			2-11-75	76.1	164.1	5604	22S/24E-07A01 M	245.0	10-11-74	124.1	119.9	5609	
20S/24E-11H01 M	1	273.0	10-01-74	95.3	177.0	5603			2-19-75	123.7	120.3		
			2-10-75	81.0	192.0		22S/24E-15A01 M	1	253.0	10-11-74	114.0	119.0	5609
20S/24E-30J02 M	1	250.0	10-01-74	101.0	149.0	5603			2-19-75	129.6	123.4		
			2-10-75	79.5	170.5	5604	22S/25E-10E01 M	296.0	10-10-74	91.7	204.3	5609	
21S/23E-05R01 M	1	222.0	10-02-74	68.0	154.0	5604			2-10-75	90.6	205.4		
			2-10-75	NM-1			22S/25E-15A01 M	1	303.0	10-10-74	129.1	173.9	5609
EXETER I.D.									2-17-75	127.9	175.1		
5-22-26							22S/26E-06A01 M	4	337.0	10-01-74	106.0	231.0	5611
18S/26E-25R01 M	4	436.0	10-01-74	NM-6		5605			1-24-75	96.5	238.5		
18S/26E-34P02 M	4	391.0	10-01-74	45.3	345.7	5605	VANDALIA I.D.						
			2-03-75	42.5	348.1		5-22-31						
18S/27E-29D01 M	4	447.0	10-01-74	27.4	419.6	5609	22S/28E-07Q01 M	524.0	10-01-74	NM-1		5601	
			2-03-77	26.8	420.2				1-21-75	119.0	415.0		
19S/26E-14E01 M	4	375.0	10-01-74	66.3	308.7	5608	22S/28E-17R01 M	577.0	10-1-74	167.7	411.3	5601	
			2-03-77	62.8	312.2				1-21-75	164.4			
19S/26E-23E01 M	4	359.5	10-11-74	65.2	294.3	5609	22S/28E-16A01 M	535.0	10-01-74	132.6	422.4	5601	
			2-03-75	59.6	299.7				1-21-75	105.6	429.4		
LINDSAY-STATHMORE I.D.							SAUCELOTT I.D.						
5-22-27							5-22-32						
19S/27E-24D01 M	4	385.0	10-01-74	46.3	338.7	5609	22S/26E-15J01 M	4	371.0	10-01-74	112.0	259.0	5611
			2-05-75	45.9	339.3				1-30-75	NM-1			
20S/27E-06B01 M	4	372.0	10-03-74	42.7	329.3	5606	22S/26E-02R01 M	4	346.0	10-04-74	167.5	228.5	5611
			2-05-75	NM-4					1-29-77	149.0	247.0		
20S/27E-14A01 M	4	426.0	10-03-74	23.5	402.5	5606	22S/26E-10F01 M	375.0	10-03-74	173.5	251.5	5611	
			2-25-75	27.8	399.2				1-24-75	NM-1			
20S/27E-21F01 M	4	414.0	10-03-74	26.2	387.8	5606	PINLEY I.D.						
			2-05-77	28.2	385.8		5-22-33						
20S/27E-23G01 M	4	406.0	10-03-74	NM-1	385.0	5606	22S/27E-25M01 M	310.0	9-26-74	NM-1		5612	
			2-07-74	21.3					2-07-77	NM-7			
LINDMOPE I.D.							22S/24E-16R01 M	222.0	9-30-74	138.4	83.6	5612	
20S/26E-01P01 M	4	360.0	9-30-74	68.2	291.8	5607			2-08-75	104.5	117.5		
			2-03-75	57.9	302.1		22S/25E-14C01 M	4	306.0	9-24-74	93.8	216.2	5612
20S/24E-22C02 M	4	441.0	2-01-74	79.0	262.0	5607			2-03-75	NM-9			
			2-04-75	75.0	268.0		22S/26E-08R01 M	345.0	9-24-74	180.4	164.6	5612	
20S/26E-24P01 M	4	425.5	10-01-74	44.5	381.0	5607			2-03-75	168.0	177.0		
			2-04-75	40.7	322.5		ALFALUGH-ALLENSWORTH AREA						
20S/26E-32A01 M	4	331.5	10-02-74	NM-1		5607	5-22-34						
			1-17-75	82.1	249.9	5609	22S/24E-35A02 M	235.0	9-24-74	234.9	30.1	5601	
			2-01-75	67.0	286.5	5609			1-24-75	291.7	71.7	5601	
			2-13-75	66.9	284.7	5609	24S/27E-05R02 M	210.0	4-25-74	228.3	18.3		
20S/27E-24E01 M	4	372.0	1-10-74	25.5	346.5	5607	24S/27E-21R02 M	205.0	4-25-74	66.9	136.1	5601	
			2-04-75	18.1	374.7				1-24-75	68.7	136.3		
							24S/27E-14R01 M	3	205.0	9-27-74	NM-1		5601
									1-24-75	236.2	31.2		

TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS

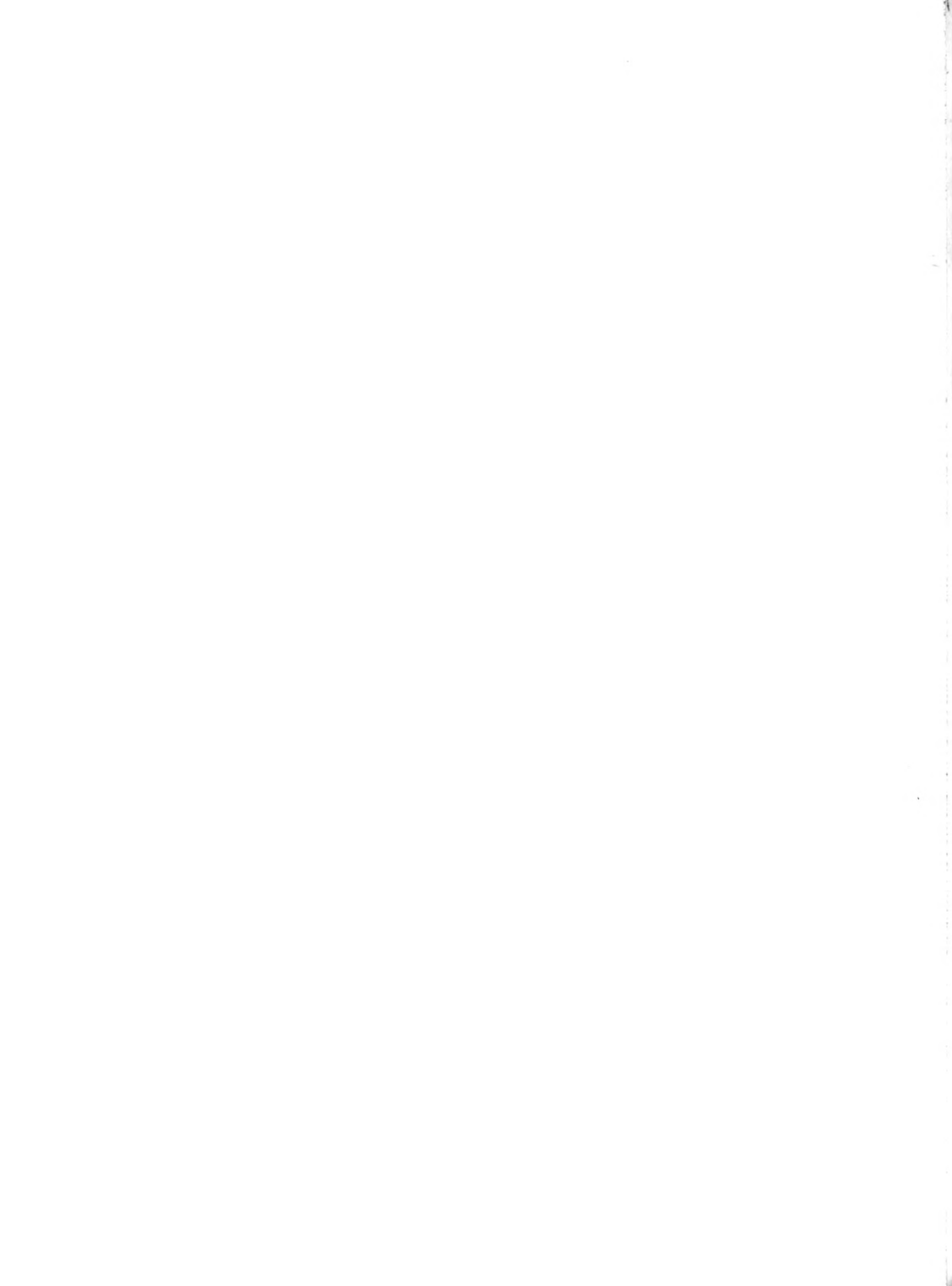
STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
ALPACHA-ALLENSMOUTH AREA							KERN RIVER DELTA AREA						
5-22.34							5-22.40						
24S/24E-28001 M		218.0	9-24-74 1-24-75	NM-1 215.5	2.5	5001	29S/25E-12M03 M	2	330.0	9-30-74 2-05-75	188.5 181.0	141.5 149.0	5133
24S/24E-22401 M		233.0	9-24-74 1-23-75	240.1 163.0	7.1 70.0	5001	30S/25E-18P01 M		300.0	9-25-74 1-29-75	100.0 102.0	200.0 198.0	5050
24S/24E-24P01 M		232.0	9-24-74 1-24-75	98.7 86.2	133.3 145.8	5001	30S/25E-22D01 M		308.5	10-01-74 2-01-75	91.4 92.1	217.1 216.4	5640
24S/25E-17P01 M	3	268.0	9-24-74 1-23-75	119.0 106.5	150.0 161.5	5001	30S/26E-22P02 M	2	338.0	10-01-74 2-04-75	120.5 108.5	217.5 229.5	5133
DELANO-EARLEHART I.D.							30S/26E-32B01 M	1	353.0	9-26-74 1-23-75	114.0 110.4	240.4 244.0	5001
23S/25E-26P01 M	1	303.0	10-04-74 1-30-75	164.0 141.0	139.0 162.0	5+13	31S/27E-14J02 M		340.0	10-01-74 2-04-75	144.0 141.5	191.0 198.5	5133
23S/26E-29P01 M		357.0	10-07-74 1-30-75	167.5 NM-1	189.5	5613	31S/27E-26J01 M	1	312.1	10-01-74 2-04-75	81.5 93.5	230.6 238.6	5133
23S/27E-27D01 M	4	552.0	9-26-74 1-22-75	NM-1 277.0	275.0 275.0	5001	31S/28E-30M01 M	3	314.7	9-27-74 1-40-75	90.0 75.0	224.7 239.7	5050
24S/25E-10A01 M	3	304.0	9-30-74 1-29-75	123.5 120.5	180.5 184.5	5613	32S/27E-18E01 M	3	292.6	9-27-74 1-30-75	145.0 125.0	147.6 167.6	5050
24S/25E-33J01 M		292.0	9-30-74 1-28-75	44.5 45.5	247.5 246.5	5613	32S/28E-04R01 M		301.0	9-24-75 1-20-75	NM-1 NM-1		5001
24S/26E-05P01 M	4	376.0	10-04-74 1-30-75	166.0 158.0	210.0 218.0	5613	EDISON-MARICOPA AREA						
24S/26E-20M01 M	4	378.0	10-03-74 1-29-75	134.0 124.0	244.0 254.0	5613	5-22.41						
24S/26E-24P01 M	1	401.0	10-04-74 1-28-75	126.0 120.0	275.0 280.0	5613	11N/19W-24H01 S		737.0	9-30-74 2-06-75	589.4 582.3	147.6 154.7	5644
24S/26E-32G01 M	1	397.0	10-03-74 1-28-75	108.0 125.0	289.0 272.0	5613	11N/19W-10A01 S	1	612.0	9-30-74 2-11-75	472.9 479.9	139.1 136.1	5644
25S/26E-10B03 M	4	430.0	10-02-74 1-27-75	176.5 163.5	253.5 266.5	5613	11N/20W-07G01 S	3	452.3	1-31-75	283.0	169.3	5050
25S/26E-16P01 M		388.0	9-23-74 1-23-75	99.2 89.5	288.8 298.5	5001	11N/20W-24E01 S		740.0	2-01-74	585.0	155.0	5050
25S/27E-22H01 M	4	750.0	9-23-74 1-20-75	474.0 NM-1	276.0	5001	11N/21W-05M01 S	3	515.9	1-31-75	420.0	95.9	5050
SOUTHERN SAN JOAQUIN M.U.D.							11N/22W-04H01 S	3	529.0	1-31-75	400.0	129.0	5050
25S/25E-36R02 M		335.0	9-26-74 1-30-75	205.4 160.0	124.6 175.0	5614	29S/29E-33M01 M	4	580.0	9-17-74 1-21-75	442.3 426.3	137.7 153.7	5644
25S/26E-28H02 M		415.0	9-27-74 1-31-75	204.6 201.6	210.4 213.4	5614	30S/28E-02R01 M	4	411.0	9-26-74 1-24-75	244.0 220.0	167.0 182.0	5001
26S/26E-16P01 M		443.0	9-26-74 1-31-75	NM-3 NM-3		5614	30S/28E-10M01 M		373.0	9-26-74 1-23-75	56.0 57.2	317.0 335.8	5001
NORTH KERN W.S.D.							30S/28E-10M04 M		373.0	9-26-74 1-23-75	207.5 197.5	165.5 175.5	5001
26S/25E-15P01 M	3	348.0	9-23-74 1-27-75	243.0 195.0	109.0 153.0	5050	30S/29E-05P01 M		515.0	9-18-74 1-21-75	375.2 NM-3	139.8	5644
26S/25E-15R01 M	3	352.3	9-23-74 1-27-75	145.0 145.0	157.3 157.3	5050	30S/29E-27A01 M	1	575.0	9-20-74 1-27-75	447.0 442.5	128.0 132.5	5644
26S/26E-30P01 M	2	392.0	1-30-75	255.0	137.0	5050	30S/30E-20R01 M	4	794.0	10-17-74 2-28-75	332.3 NM-1	561.7	5644
27S/25E-01M01 M	3	394.0	9-25-74 1-31-75	117.0 106.0	277.0 288.0	5050	31S/29E-04P01 M		459.0	9-23-74 1-29-75	332.5 292.5	126.5 166.5	5644
27S/25E-01M03 M	2	394.0	9-25-74 1-31-75	301.0 271.0	93.0 123.0	5050	31S/29E-24A01 M		400.0	9-24-74 1-20-75	154.5 144.9	245.5 255.1	5001
27S/26E-20D01 M	1	445.3	9-25-74 1-31-75	340.0 NM-1	105.3	5050	31S/30E-21G01 M	4	536.0	10-10-74 2-19-75	364.2 358.5	171.8 177.5	5644
27S/27E-30H02 M	4	525.0	9-23-74 1-20-75	479.0 324.0	46.0 201.0	5001	32S/28E-23R01 M		386.0	10-10-74 2-20-75	255.6 260.4	130.4 125.6	5644
28S/25E-13L1 M	3	363.1	9-24-74 1-28-75	240.0 218.0	123.1 143.1	5050	32S/29E-19H02 M		416.0	10-15-74 2-26-75	144.9 147.8	216.1 218.2	5644
28S/26E-21H01 M	3	388.0	9-23-74 1-28-75	181.0 128.0	207.0 260.0	5050	32S/29E-19H03 M		416.0	10-15-74 2-26-75	339.0 322.3	77.0 93.7	
28S/26E-21H03 M	2	388.0	9-23-74 1-28-75	275.0 250.0	113.0 138.0	5050	BUENA VISTA W.S.D.						
SHAFTER-WASCO I.D.							5-22.42						
27S/24E-01I02 M		322.0	9-23-74 1-27-75	295.1 250.5	26.9 71.5	5616	28S/22E-21P02 M		240.0	9-27-74 1-29-75	18.0 18.0	224.0 222.0	5133
27S/24E-35C01 M	3	321.4	9-24-74 1-29-75	NM-1 252.0		5050	28S/22E-32H01 M	1	241.0	9-27-74 1-29-75	141.0 136.0	100.0 105.0	5133
27S/25E-28A01 M	3	375.0	9-26-74 1-28-75	283.0 260.0	92.0 115.0	5050	28S/22E-09D01 M	3	240.0	9-27-74 1-24-75	12.5 12.5	227.5 227.5	5133
28S/25E-26P01 M		324.0	9-25-74 2-03-75	240.5 217.0	88.5 112.0	5+16	28S/23E-31R01 M		257.8	10-01-74 2-01-75	26.2 36.1	231.6 221.7	5640
KERN RIVER DELTA AREA							29S/23E-08A01 M		259.0	10-01-74 2-03-75	37.7 48.8	221.3 210.2	5640
28S/26E-24L01 M	3	350.0	9-26-74 2-04-75	201.5 NM-1	148.5	5+16	29S/23E-27M01 M	1	270.0	9-27-74 1-31-75	55.5 54.5	214.5 210.5	5133
							30S/23E-01D01 M		276.0	6-01-74 2-01-75	73.0 84.7	203.0 192.1	5640

**TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
BUENA VISTA W.S.D.							CORCORAN I.D.						
5-22.42							5-22.46						
30S/24E-02C01 M		286.7	10-01-74 2-01-75	112.6 107.5	176.1 161.2	540	20S/22E-35R01 M		216.0	11-06-74 2-20-75	45.0 55.0	171.0 161.0	5050
30S/24E-04C01 M	1	282.0	9-27-74 1-31-75	87.5 91.5	194.5 190.5	5133	21S/22E-27A01 M		196.0	11-06-74 2-20-75	10.0 9.5	186.0 186.5	5050
31S/25E-26A01 M		284.0	10-02-74 1-30-75	84.0 86.0	205.0 223.0	5133	22S/22E-01B02 M		201.0	11-06-74 2-20-75	5.2 6.5	195.8 194.5	5050
SEMITROPIC W.S.D.							22S/22E-05L01 M	2	188.0	2-20-75	NM-6		5050
25S/22E-02N02 M	1	212.0	9-25-74	NM-6		5133	22S/22E-09L01 M		189.0	2-20-75	99.0	90.0	5050
25S/22E-14G01 M	1	215.0	9-25-74 1-28-75	256.5 195.5	- 41.5 19.5	5133	22S/22E-10A01 M	2	192.0	11-06-74 2-20-75	117.0 102.0	75.0 90.0	5050
25S/23E-28D01 M		217.0	9-26-74 1-29-75	111.0 103.0	106.0 114.0	5133	22S/22E-13P01 M	1	193.0	11-06-74 2-20-75	NM-6 NM-6		5050
25S/23E-28D03 M	2	217.0	9-26-74 1-29-75	NM-3 NM-3		5133	22S/22E-22H01 M	2	191.0	11-06-74	NM-6		5050
25S/24E-10K01 M	1	240.0	9-25-74 1-23-75	57.6 56.0	182.4 184.0	5001	MENDOTA-HUBBARD AREA						
25S/24E-15H01 M		248.0	9-25-74 1-43-75	75.3 73.2	172.7 174.8	5001	13S/12E-22N01 M	2	280.0	10-17-74 3-25-75	90.4 90.0	189.6 190.0	5607
25S/24E-30H01 M		238.0	9-25-74 1-26-75	NM-7 NM-4		5133	14S/15E-18E02 M		178.0	12-19-74	NM-6		5050
26S/21E-14J01 M	1	237.0	9-23-74 1-27-75	28.0 36.0	209.0 201.0	5133	15S/14E-15E04 M		238.0	12-17-74 1-27-75	NM-4 NM-6		5050
26S/22E-21D01 M	2	240.0	9-23-74 1-28-75	35.0 36.0	205.0 204.0	5133	15S/15E-22Q01 M		175.0	10-16-74 1-27-75	72.7 81.0	102.3 94.0	5001
26S/23E-02R01 M	2	234.9	9-26-74 1-29-75	NM-7 NM-6		5133	15S/16E-17L01 M		165.0	10-17-74 1-16-75	42.7 42.6	122.3 122.4	5621
26S/24E-23H01 M	2	245.5	9-27-74 1-30-75	122.0 124.0	- 26.5 46.5	5050	15S/16E-28A04 M		164.0	12-20-74 1-16-75	130.0 129.7	34.0 34.3	5050
27S/23E-01R01 M	1	267.0	9-24-74 1-28-75	97.5 96.5	169.5 170.5	5133	17S/14E-13R01 M	1	487.0	12-23-74	630.0	-173.0	5050
27S/23E-01R04 M	2	267.0	9-24-74 1-28-75	303.5 257.5	- 36.5 9.5	5133	17S/16E-24P01 M		232.5	11-20-74	NM-6		5050
27S/23E-01R05 M	2	267.0	9-24-74 1-28-75	294.5 249.5	- 27.5 17.5	5133	17S/16E-30A03 M		290.0	10-16-74 1-17-75	60.0 58.5	230.0 231.5	5001
27S/23E-09C01 M		260.0	9-26-74 1-31-75	289.0 283.0	- 29.0 - 23.0	5133	17S/16E-30A05 M		290.0	10-16-74 1-17-75	349.2 358.7	- 59.2 - 68.7	5001
28S/23E-11E01 M		255.0	10-01-74 2-01-75	39.0 43.5	216.0 211.5	5640	17S/17E-20R01 M	3	228.0	12-19-74	NM-1		5050
29S/24E-14R01 M	1	290.0	10-00-74	NM-0		5133	18S/17E-12N01 M	2	253.0	12-19-74	245.0	8.0	5050
AVENAL-MCKITTRICK AREA							19S/18E-15W01 M	2	274.0	2-06-74	245.0	29.0	5050
5-22.44							20S/17E-32P01 M		447.0	12-15-74	607.0	-160.0	5050
24S/19E-10P01 M		130.0	2-19-74 5-20-74	24.1 24.0	305.9 306.0	5050	20S/18E-11N01 M	3	277.0	12-16-74	NM-6		5050
21S/19E-20P02 M	1	40.0	9-23-74 1-27-75	117.6 106.8	362.4 373.4	5133	20S/18E-36D01 M		260.0	12-17-74	198.0	62.0	5050
25S/20E-04C01 M	1	268.0	5-26-74 11-19-74	45.5 NM-6	222.5	5050	21S/18E-28M02 M		363.0	12-17-74	335.1	28.0	5050
26S/18E-10B02 M	1	875.0	9-23-74 1-27-75	165.0 164.0	710.0 711.0	5133	POSO RESOURCES C.D.						
28S/22E-20N01 M		290.0	11-19-74 3-18-75	67.0 68.0	223.0 222.0	5050	11S/13E-05Q01 M		117.0	3-18-75	8.6	108.2	5529
TULARE LAKE-LOST HILLS AREA							TERRA BELLA I.D.						
5-22.45							5-22.50						
22S/19E-18P02 M	1	255.0	11-18-74 3-17-75	176.0 175.0	78.0 80.0	5050	22S/27E-25J03 M		532.0	9-14-74 2-20-75	108.0 87.0	424.0 445.0	5619
22S/21E-01J01 M	2	185.5	2-20-75	94.0	91.5	5050	23S/27E-05A01 M	4	450.0	9-10-74 1-22-75	NM-1 147.1	302.9	5001
23S/19E-14R01 M	1	235.0	11-18-74 3-17-75	32.0 33.5	203.0 201.5	5050	23S/28E-06A02 M	1	550.0	9-14-74 2-20-75	101.0 99.0	449.0 451.0	5619
24S/20E-21N02 M	1	233.0	3-17-75	NM-0		5050	MERCED BOTTOMS						
24S/21E-15J01 M		211.0	2-19-75	19.5	191.5	5050	07S/10E-23R01 M		90.0	11-12-74 3-03-75	16.0 4.5	64.0 75.5	5050
24S/21E-36B01 M		210.0	2-19-75	17.5	192.5	5050	07S/10E-23R02 M		80.0	11-12-74 3-03-75	4.3 3.5	75.7 76.5	5050
24S/22E-28A02 M		207.0	11-06-74 2-13-75	233.0 197.0	- 26.0 10.0	5050	07S/12E-27P01 M		110.0	11-12-74 2-28-75	12.0 10.0	96.5 100.5	5050
24S/22E-35R01 M		213.0	11-06-74 2-13-75	263.0 212.0	- 50.0 1.0	5050	08S/12E-14D01 M		90.0	2-27-75	12.0	78.0	5050
24S/22E-35R02 M		213.0	11-06-74 2-13-75	263.0 212.0	- 50.0 1.0	5050	08S/12E-01C01 M	1	110.5	11-12-74 2-26-75	NM-1 47.0	63.5	5050
24S/22E-35R03 M		213.0	11-06-74 2-13-75	263.0 212.0	- 50.0 1.0	5050	08S/14E-01B01 M		190.0	11-12-74 2-26-75	89.0 69.0	91.0 111.0	5050
24S/22E-35R04 M		213.0	11-06-74 2-13-75	263.0 212.0	- 50.0 1.0	5050	08S/14E-01B02 M		180.0	11-12-74 2-26-75	85.0 66.0	95.0 114.0	5050

**TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
MERCED BOTTOMS							5-22-54						
09S/14E-01B03 M		190.0	11-12-74 2-26-75	40.0 39.0	141.0 141.0	5050							
09S/14E-06D01 M		141.0	11-12-74 1-20-75	44.0 41.4	93.0 97.6	5050							
GARFIELD W.D.							5-22-65						
12S/20E-13H01 M	4	387.0	10-03-74 2-03-75	97.0 96.4	289.4 290.6	5622							
12S/21E-07A02 M	4	405.5	10-03-74 2-03-75	120.8 120.0	284.7 285.5	5622							
12S/21E-18A03 M	4	390.5	10-03-74 2-03-75	84.4 84.0	296.1 296.5	5622							
KINGS COUNTY W.D.							5-22-66						
17S/20E-36R02 M	1	243.0	9-18-74 1-30-75	17.3 16.1	225.7 226.9	5129							
17S/22E-11P01 M	1	283.0	9-18-74 1-30-75	22.3 22.4	260.7 260.1	5129							
17S/22E-35R01 M	1	266.0	9-18-74 1-30-75	43.1 35.9	222.9 230.1	5129							
18S/21E-17N01 M	1	238.0	9-18-74 1-30-75	11.1 10.4	226.9 227.1	5129							
18S/22E-21H01 M	1	258.0	9-18-74 1-30-75	85.1 89.6	172.9 168.4	5129							
18S/22E-36P01 M		245.0	10-04-74 1-30-75	73.7 83.5	171.3 161.5	5129							
18S/23E-28B01 M	1	263.0	9-20-74 1-30-75	112.2 111.9	150.8 151.1	5129							
19S/21E-20N01 M	1	225.0	9-20-74 2-06-75	10.3 10.7	214.7 214.3	5129							
19S/22E-04B01 M	1	245.0	9-18-74 1-30-75	129.4 127.3	115.6 117.7	5129							
19S/22E-14A01 M	2	235.0	9-18-74 2-06-75	75.4 71.2	159.6 163.8	5129							
19S/22E-23A01 M		240.5	9-18-74 2-06-75	78.6 77.1	161.9 163.4	5129							
20S/21E-03A01 M		220.0	10-10-74 2-20-75	9.5 14.5	210.5 205.5	5603							
20S/21E-05E01 M	2	214.0	9-20-74 2-06-75	155.6 153.1	63.4 60.9	5129							
20S/22E-10H02 M	2	225.0	9-24-74 2-07-75	117.5 88.9	107.5	5129							
PLEASANT VALLEY							5-22-65						
20S/15E-25D01 M	1	619.0	1-03-75	DPV		5050							
20S/15E-32A01 M	1	675.0	1-03-75	247.0	428.0	5050							
21S/16E-02W01 M	1	570.0	1-02-75	256.0	312.0	5050							
21S/16E-08E01 M	1	604.0	1-02-75	234.0	361.0	5050							
21S/16E-35D01 M	1	682.0	1-02-75	363.0	319.0	5050							



APPENDIX D
SURFACE WATER QUALITY

APPENDIX D
SURFACE WATER QUALITY

Introduction

Appendix D summarizes the surface water quality for the San Joaquin Valley for 1975 water year (October 1, 1974, through September 30, 1975). These data were obtained from 101 surface water quality sampling stations.

Laboratory analyses of surface water samples performed by the Department of Water Resources' laboratory reported herein are in accordance with the 13th Edition of "Standard Methods for the Examination of Water and Waste Water".

Each station in this appendix has been assigned an eight digit identification number. The first two digits denote the drainage basin as shown below; the remaining digits identify each station.

<u>Hydrographic Area B</u> <u>San Joaquin River Basin</u>	<u>Hydrographic Area C</u> <u>Tulare Lake Drainage Basin</u>
B0 San Joaquin Valley Floor	C0 Tulare Lake Valley Floor
B3 Stanislaus River	C1 Kings River
B4 Tuolumne River	C2 Kaweah River
B5 Merced River	C3 Tule River
B6 Fresno-Chowchilla Rivers	C4 Greenhorn Mountains
B7 San Joaquin River	C5 Kern River
B8 San Joaquin Valley on West Side	C6 Tehachapi Mountains
	C7 Tulare Lake Basin on West Side

TABLE D-I
SAMPLING STATION DATA AND INDEX
FOR
SURFACE WATER

Station	Station Identification Number	Location ^a	Period of Record ^b	Frequency of Sampling ^c	Sampled By ^d	Analysis or Page
Bear Creek above Bear Creek Reservoir	B55152.10	6S/16E-22Q	February 1974		DWR	173, 198, 196
Big Creek above Pine Flat Reservoir	C11320.00	11S/25E-4	--	S	DWR	176, 189, 197, 200
Burkhard Drain	B00936.30	4S/7E-4L	June 1975			168, 184, 193
Burns Creek at Merced-Mariposa County Line	B56152.50	6S/16E-19D	February 1974		DWR	173, 182, 188, 196
Caliente Creek above Tehachapi	C61575.00	30S/32E-17P				179
Canal Creek at Oakdale Road	B05166.50	6S/13E-10K	February 1974		DWR	170, 182, 185, 193
Chowchilla River near Raymond	B64200.00	8S/18E-01R	July 1958	S	DWR	174
Deadman Creek at Baxter Road	B06399.50	8S/17E-17M	February 1974		DWR	170, 186, 194
Delta-Mendota Canal to Mendota Pool	B00770.00	13S/15E-19Q	July 1952	S	DWR	167, 184
Dutchman Creek at Baxter Road	B06369.50	8S/17E-20N	February 1974		DWR	170, 185, 194
Fresno River near Daulton	B67150.00	10S/19E-03	January 1985	S	DWR	174
Friant-Kern Canal at Friant	B71910.00	11S/21E-05P	March 1974	Q	DWR	175
Griswold Creek above Panoche Valley	B81253.10	16S/10E-13C				175
Kaweah River above Lake Kaweah	C21210.30	17S/28E-34	December 1974	S	DWR	177, 189, 197
Kaweah River at Lemoncove	C02550.30	18S/27E-3	--	S	DWR	175, 189, 197
Kaweah River Middle Fork below No. 2 Intake near Three Rivers	C23147.00	16S/29E-33	--	S	DWR	177, 189, 198
Kaweah River North Fork near Mouth	C22010.30	17S/28E-13	--	S	DWR	177, 189, 198
Kaweah River South Fork above Grouse Creek	C24201.50	18S/29E-16	--	S	DWR	177, 189, 198
Kaweah River below Terminus Dam	C02185.00	17S/27E-25	September 1961	Q	DWR	175, 182, 200
Kaweah River at Three Rivers	C21250.00	17S/28E-13N	April 1951	S	DWR	177
Kerckhoff Reservoir near Auberry	B71188.00	9S/22E-24P	March 1974	S	DWR	174
Kern River near Bakersfield	C05150.00	28S/29E-33	April 1951	Q	DWR	176, 182, 200
Kern River above Fairview	C51660.10	23S/32E-12	--	S	DWR	179, 190, 193
Kern River at Hart Park	C05160.10	28S/28E-36	--	S	DWR	176, 189, 197
Kern River below Isabella Dam	C51350.00	26S/33E-30E	--	S	DWR	178
Kern River at Kernville	C51500.00	25S/33E-15	--	S	DWR	179, 190, 198
Kern River at Miracle Hot Springs	C51220.10	27S/32E-15	--	S	DWR	178, 190, 198
Kern River at Rancheria Bridge	C05180.10	29S/29E-11	--	S	DWR	176, 199, 197
Kern River South Fork near Weldon	C53110.10	26S/34E-10	--	S	DWR	179, 190, 198
Kings River below North Fork	C11460.00	12S/26E-21	--	S	DWR	177, 189, 197
Kings River below Peoples Weir	C01140.00	17S/22E-01	April 1951	Q	DWR	175
Kings River near Piedra	C11115.50	13S/24E-08B	February 1974		DWR	176, 189, 197
Kings River below Pine Flat Reservoir	C11140.00	13S/24E-02	September 1955	Q	DWR	176, 182
Kings River South Fork at Cedar Grove	C14115.30	13S/30E-1	--	S	DWR	177, 189, 197
Mariposa Creek above Mariposa Reservoir	B62204.10	7S/17E-17A	February 1974		DWR	174, 182, 188, 197
Merced River at Bagby	B51320.00	04S/17E-6	November 1952	S	DWR	173, 188, 196
Merced River above Briceburg	B51410.10	03S/18E-25	October 1972	S	DWR	173, 188, 196
Merced River below El Portal	B51517.10	03S/20E-18	October 1972	S	DWR	173, 188, 196

TABLE D-I (Continued)
**SAMPLING STATION DATA AND INDEX
 FOR
 SURFACE WATER**

Station	Station Identification Number	Location ^a	Period of Record ^b	Frequency of Sampling ^c	Sampled By ^d	Analysis on Page
Merced River below Exchequer Dam	B51200.00	04S/15E-13	April 1951	Q	DWR	173, 182, 196 200
Merced River at Happy Isles Bridge near Yosemite	B51700.00	02S/21E-	--	S	DWR	173, 188, 196
Merced River at Junction Big Oak Flat Road and Highway 140	B51519.50	02S/21E-	February 1973	S	DWR	173, 188, 196
Merced River at Milliken Bridge	B05131.00	06S/09E-36	April 1951	M	DWR	170, 185, 193 200
Modesto Sewage Treatment Plant	B04942.30	4S/8E-3C	July 1975			169, 185, 193
Musick Creek #1 near Shaver Lake	B71406.00	10S/24E-2E	November 1974			174
Musick Creek #2 near Shaver Lake	B71408.00	10S/24E-3P	October 1974			175
Newman Wasteway	B00349.10	17S/9E-16J	June 1975			168, 184, 193
Owens Creek above Owens Reservoir	B62020.10	7S/16E-12H	February 1974		DWR	174, 188, 196
Poso Creek below Glennville	C44950.10	25S/30E-35M	December 1974			178
Salt Slough near Stevinson	B00470.00	08S/10E-10	December 1961	Q	DWR	168, 182, 184 193, 200
San Joaquin River at Crows Landing Bridge	B07250.00	6S/9E-07A	January 1957		DWR	171, 186, 195
San Joaquin River at Fremont Ford Bridge	B07375.00	07S/09E-24	July 1955		DWR	171, 182, 186, 187, 195, 200
San Joaquin River at Friant Dam	B07885.00	11S/21E-07	April 1951		DWR	172, 182, 187
San Joaquin River near Grayson	B07080.00	04S/07E-25	April 1959	M	DWR	171, 186, 194
San Joaquin River below Kerckhoff near Prather	B71180.00	10S/22E-10C	October 1974			174, 182
San Joaquin River at Maze Road Bridge	B07040.00	03S/07E-33	April 1951	M	DWR	170, 171, 186 194, 200
San Joaquin River near Mendota	B07710.00	13S/15E-07	April 1951	M	DWR	171, 187
San Joaquin River at North Fork Road Bridge	B07886.50	11S21E-07H	February 1974		DWR	172, 187, 195
San Joaquin River at Patterson Bridge	B07200.00	5S/8E-15M	February 1958		DWR	171, 186, 194
San Joaquin River below Shakeflat Creek	B71532.50	7S/24E-10	--	S	DWR	175, 188, 194
San Joaquin River South Fork at Mono Hot Springs	B74250.50	7S/27E-10	--	S	DWR	175, 188, 197
San Joaquin River near Vernalis	B07020.00	03S/06E-13	April 1951	M	DWR & USBR	179, 180, 182, 190, 191, 194, 200
San Joaquin River above Willow Creek near Auberry	B71340.00	9S/23E-15	--	S	DWR	174, 188, 197
Stanislaus River at Knights Ferry	B03185.00	1S/12E-29	--	S	DWR	169, 184, 193
Stanislaus River at Koetitz Ranch	B03115.00	03S/07E-02	April 1951	M	DWR	168, 169, 184 193
Stanislaus River Middle Fork at Beardsley	B33255.00	5N/18E-31	--	S	DWR	172, 187, 195
Stanislaus River Middle Fork at Dardanelle	B33480.10	6N/20E-30	--	S	DWR	172, 187, 195
Stanislaus River North Fork at Calaveras Big Trees State Park	B32110.10	5N/15E-24	--	S	DWR	172, 187, 195
Stanislaus River at Parrotts Ferry Bridge	B31400.50	2N/13E-9	--	S	DWR	172, 187, 195
Stanislaus River below Tulloch Dam	B31158.10	01S/12E-02	August 1956	Q	DWR	172, 182, 200
Sullivan Creek at Jacksonville Road	B41231.50	01N/14E-35C	November 1973			187, 195

TABLE D-1 (Continued)
**SAMPLING STATION DATA AND INDEX
 FOR
 SURFACE WATER**

Station	Station Identification Number	Location ^a	Period of Record ^b	Frequency of Sampling ^c	Sampled By ^d	Analysis on Page
Tehachapi Creek near Tehachapi	C61540.00	32S/32E-16P				179
Tejon Creek at Comanche Point Oil Field	C62050.30	12N/18W-28N	January 1970			179
Tile Drain near Patterson	B00955.30	5S/8E-21L	July 1975			168, 164
Tule River North Fork at Bear Creek Road	C32190.10	20S/29E-35	--	S	DWR	178, 190, 198
Tule River South Fork above Crew Creek	C34149.30	22S/29E-4		S	DWR	178, 190, 198
Tule River South Fork of Middle Fork near Springville	C3200.00	20S/30E-	--	S	DWR	178, 190, 198
Tule River below Springville	C31929.30	21S/29E-17	--	S	DWR	178, 190, 198
Tule River below Success Dam	C03196.00	21S/28E-35	July 1956	Q	DWR	176, 182, 200
Tule River at Worth Bridge near Porterville	C03195.00	22S/28E-3	--	S	DWR	175, 176, 189, 197
Tuolumne River above Don Pedro Reservoir	B41265.50	1S/15E-20B	March 1966	S	DWR	172
Tuolumne River above Early Intake	B41680.10	1S/18E-1	--	S	DWR	173, 188, 195
Tuolumne River at La Grange Bridge	B04175.00	03S/14E-20	--		DWR	169, 185, 193, 200
Tuolumne River at Tuolumne City	B04105.00	04S/08E-12	April 1951	M	DWR	169, 184, 193, 200
Tuolumne River at Tuolumne Meadows	B41850.10	1S/24E-3	--	S	DWR	173, 188, 195
Tuolumne River at Wards Ferry Bridge	B41290.10	1S/15E-2	--	S	DWR	172, 187, 195
Turlock Irrigation District Lateral Drain #2	B04974.30	4S/7E-25G	June 1975		DWR	169, 185, 193
Turlock Irrigation District Lateral Drain #5	B04975.30	5S/8E-25R	June 1975		DWR	170, 185, 193
Turlock Irrigation District Lateral Drain #6 and #7	B04976.30	6S/9E-22H	June 1975		DWR	170, 185, 193
Turlock Sewage Treatment Plant	B04921.30	5S/10E-21K	July 1975		DWR	169, 185, 193
Woods Creek at County Fairgrounds	B41239.50	2N/14E-36P	October 1973		DWR	187, 195
Woods Creek at Jack Page Road above Sonora	B41241.50	2N/14E-25B	October 1973		DWR	187, 195
Woods Creek below Jamestown Sewage Treatment Plant	B41235.50	1N/14E-15M	October 1973		DWR	187, 195
Woods Creek at Slate Creek	B41232.50	1N/14E-33H	October 1973		DWR	187, 195
Woods Creek below Sonora Sewage Treatment Plant	B41238.50	1N/14E-01N	October 1973		DWR	187, 195
Westly Wasteway	B00109.30	4S/7E-26K	June 1975		DWR	168, 184, 193
LAKES						
Lake McClure at Bagby	B5R73670079L	4S/17E-6	1975		DWR	173, 196
Lake McClure near McClure Point	B5R73570162L	4S/15E-12	September 1974		DWR	173, 196
Lake McClure at Inlet (head)	B5R73620061L	4S/17E-19E	1975		DWR	196
Lake McClure at Barrett Cove	B5R73880173L	3S/15E-35A	1975		DWR	196
Lake McClure at Lower Horseshoe Bend	B5R74050138L	3S/16E-17F	1975		DWR	196
Lake McClure at Upper Horseshoe Bend	B5R74160161L	3S/16E-BF	1975		DWR	196

- a. Location of sampling stations is shown on Figure B-1.
 b. Beginning of record (-- indicates an irregular period of record).
 c. M - Monthly, Q - Quarterly, S - Semiannually, all others irregular.
 d. DWR - Dept. of Water Resources, USGS - U. S. Geological Survey.

TABLE D-2
MINERAL ANALYSES OF SURFACE WATER

Abbreviations, Chemical Symbols, and Codes used
in this table are:

<u>Abbreviations</u>			
TEMP	Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)	DO	Dissolved oxygen content in milligrams per litre
SAT	Percent Saturation	GH	Gage height in feet above an established datum
Q	Flow	FLD	Field Determination
LAB	Laboratory	EC	Specific electrical conductance in micromhos at 25°C Celsius
PH	Measure of acidity or alkalinity of water	TDS	Total Dissolved Solids
SUM	Summation of Analyzed Constituents	TH	Total Hardness
NCH	Noncarbonate Hardness	TURB	Turbidity in Turbidity Units
SAR	Sodium Adsorption Ratio		
REM	Remarks as follows:		
T	Total Dissolved Solids and the calculated sum of constituents are <u>not</u> within 20 percent of each other.		
E	Total Dissolved Solids value is <u>not</u> within the range of 0.35 to 0.70 of the Specific Electrical Conductance.		
S	The anion and cation sums are <u>not</u> within the prescribed tolerance of <u>+5</u> percent.		
X	The field EC and the laboratory EC are <u>not</u> within 20 percent of each other.		

Chemical Symbols

CA	Calcium	SO ₄	Sulphate
MG	Magnesium	CL	Chloride
NA	Sodium	NO ₃	Nitrate
K	Potassium	F	Fluoride
CO ₃	Carbonate	B	Boron
HCO ₃	Bicarbonate	SiO ₂	Silica

Sampler (SAMP) and Laboratory (LAB) Codes

5001	U. S. Bureau of Reclamation
5050	Department of Water Resources

TABLE D-2
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. D OERTH	00 SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER					TDS SUM	TH NCH	TURB SAR	DEM
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	102	1102	105				
R0 0109.30 WESTLEY WASTEWAY																							
06/25/75	5050			10.5	66	F				0	89												
0945	5001			11.0	18	C	8.0	458		.00	1.46						14.8				168C		S
07/23/75	5050			11.3	73	F	8.5	668		0	128										1204F		S
0820	5001			131	23	C	8.5			.00	2.10						15.2						
R0 0349.10 NEWMAN WASTEWAY																							
06/24/75	5050			5.4	66	F	7.9	1070													35C		
1030	5001			58	19	C											20.0						
07/22/75	5050			2.4	73	F	7.3	1060				0	240								204F		
0930	5001			28	23	C	7.3			.00	3.93						21.6						S
09/30/75	5050			1.3	68	F	7.6	1290			0	334									174F		
1005	5001			14	20	C	7.6			.00	5.47						22.0						S
R0 0470.00 SALT SLOUGH NE STEVINSON																							
12/19/74	5050	21.20	19.0	50.0F	7.6	1650	103	60	332		0	282	4.29	4.01	4.0	2.20		1540	804			X	
1310	5050			89	10.0C	8.2	2410	5.14	4.93	14.44		.00	4.29	8.93	11.31	.06		1460	789	6.4			
								21	20	59				36	46								
04/03/75	5050			8.4	55.4F	7.7	1550	100	45	246		0	182	395	300		2.10		1240	435			X
0900	5050			79	13.0C	8.0	1960	4.99	3.70	10.70		.00	2.98	8.22	8.46				1170	286	5.1		
								26	19	55				15	42	43							
05/21/75	5050			62.6F	7.4	1300	73	34	188	5.1	0	189	201	262	6.7	.60		925	322				
1230	5050			17.0C	7.9	1520	3.64	2.80	8.18	.13	.00	3.10	4.18	7.39	.11		18.0	881	167	4.6			
								25	19	55				21	28	50	1						
05/28/75	5050	21.43	10.3	71.6F	8.1	1200	64	30	170		0	174	165	226		.60		791	282				
1130	5050			117	22.0C	8.2	1340	3.19	2.47	7.40		.00	2.85	3.44	6.37			741	141	4.4			
								24	19	47				23	27	50							
06/24/75	5050			7.4	60	F	8.1	993				0	14								50C		
0945	5001			70	20	C	8.1	993				.00	.23				18.2						S
07/22/75	5050			5.6	82	F	7.8	967				0	124								304F		
0950	5001			71	28	C	7.8			.00	2.03						21.6						S
08/20/75	5050			73	F	7.3	1100	62	25	130	5.6	0	154	178	170	13.0	1.00		720	259			
1100	5050			23	C	7.6	1160	3.09	2.06	5.46	.14	.00	2.52	3.71	4.79	.21	22.0	682	132	3.5			
								28	19	52	1			22	33	43	2						
08/27/75	5050	22.55	5.7	71.6F	7.4	1175	63	31	161		0	187	206	208		.90		785	286				
1100	5050			62	22.0C	7.5	1300	3.14	2.55	7.00		.00	3.06	4.29	5.87			762	132	4.2			
								25	20	55				23	32	44							
R0 0770.00 DELTA MENDOTA CANAL TO MENDOTA POOL																							
12/11/74	5050	10.90	10.7	49.1F	8.3	340	25	13	58		0	87	93	54	4.5	.40		318	119			X	
1020	5050			94	9.5C	8.0	430	1.25	1.13	2.52		.00	1.43	1.94	1.52	.07		291	48	2.3			
								26	23	51				29	39	31	1						
04/08/75	5050	15.20	10.3	55.4F	7.5	310	24	12	42		0	85	59	56		.20		259	110			X	
1030	5050			94	13.0C	7.9	425	1.20	1.00	1.83		.00	1.39	1.23	1.58			235	41	1.7			
								30	25	45				33	29	38							
05/28/75	5050			7.4	71.5F	7.1	320	17	9.8	28		0	73	31	35		.10		177	83			
0800	5050			86	21.9C	8.0	317	.05	.81	1.22		.00	1.20	.65	.99			157	23	1.3			
								38	28	42				42	23	35							
09/11/75	5050	15.50	7.4	73.4F	7.6	390	25	13	46		0	107	50	56		.20		263	117				
1100	5050			86	23.0C	8.0	468	1.25	1.07	2.00		.00	1.75	1.04	1.58			243	29	1.9			
								29	25	46				40	24	36							
R0 0936.30 BURKHARD 094IN																							
07/23/75	5050			7.9	72	F	8.2	1425				0	225								1044F		
0930	5001			90	22	C	8.2			.00	3.69						14.4						S
R0 0955.30 TILE DRAIN NEAR PATTERSON																							
07/22/75	5050			1.7	68	F	7.3	2923				0	398								144F		
1255	5001			19	20	C	7.3			.00	6.52						24.8						S
09/30/75	5050			4.5	68.0F	7.4	3000					0	371								144F		
1400	5001			49	20.0C					.00	6.08												S
R0 3115.00 STANISLAUS RIVER AT KOETITZ RANCH																							
12/19/74	5050	32.64	10.6	56.9F	7.2	70	7.6	3.4	3.8		0	40	4.0	1.4	1.5	.00		59	33			E	
1510	5050			95	10.5C	7.7	83	.38	.28	.17		.00	.66	.08	.04	.02		41	0	0.3	T		
								46	34	20				10	5	3							
04/03/75	5050	32.79	10.5	51.8F	7.3	85	11	5.5	4.6		0	60	6.4	1.6		.10		63	50			X	
1140	5050			95	11.0C	7.7	120	.55	.45	.05		.00	.98	.13	.05			59	1	0.3			
								46	38	17				84	11	4							
05/28/75	5050	36.79	9.5	63.5F	7.3	35	4.3	2.6	2.6		0	24	1.3	2.1		.00		36	21			E4	
1600	5050			99	17.5C	7.2	50	.21	.21	.11		.00	.39	.03	.06			25	2	0.2	T		
								40	40	21				61	6	13							
06/25/75	5050																						
1205	5001																10.6						

TABLE D-2 (Cont'd)

MINERAL ANALYSES OF SURFACE WATER																			
DATE TIME	SAMPLER LAB	G.P. DEPTH	00 SAT	TEMP	FIELD		MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				
					LABORATORY PH	EC	CA	MG	NA	K	PERCENT CO3	REACTANCE HCO3	SO4	CL	NO3	8	F	TDS SUM	TH NCH

STANISLAUS RIVER AT KOETITZ RANCH																			
CONTINUED																			
07/23/75	5050			8.1	75	F 7.5	197	--	--	--	0	86	--	--	--	--			7AF
1110	5001	3		95	24	C 7.5					.00	1.41				19.6			S
08/27/75	5050	24.62	8.1	73.4F	7.5	160	14	9.0	9.5	--	0	86	8.1	6.4	--	.00	--	114	72
1500	5050		93	23.0C	7.7	181	.70	.74	.41		.00	1.41	.17	.18		--	89	2	0.5
							36	40	22			80	10	10					T
STANISLAUS RIVER AT KNIGHTS FERRY																			
06/18/75	5050			9.9	62.6F	8.1	28	--	--	--	0	17	--	--	--	--	27		E
1600	5050		103	17.0C	7.4	33					.00	.24				--			S
09/17/75	5050			8.6	73.4F	7.8	65	--	--	--	0	35	--	--	--	--	55		E
1700	5050		100	23.9C	7.2	68					.00	.57				--			
TUOLUMNE RIVER AT TUOLUMNE CITY																			
12/19/74	5050	26.59	10.1	52.7F	7.1	140	11	4.5	17	--	0	42	4.1	28	2.4	.00	--	113	46
1445	5050		92	11.5C	7.7	183	.55	.37	.74		.00	.69	.09	.79	.04	--	88	12	1.1
							33	22	45			.43	6	49	2				X
04/03/75	5050	25.44	9.5	59.8F	7.4	230	18	7.3	29	--	0	69	5.9	50	--	.10	--	159	75
1230	5050		90	13.2C	7.8	364	.90	.60	1.26		.00	1.13	.12	1.41		--	144	19	1.5
							33	22	46			.42	5	53					X
05/28/75	5050	24.10	7.5	75.2F	7.3	400	26	10	42	--	0	89	8.4	79	--	.10	--	257	106
1400	5050		88	24.0C	7.9	434	1.30	.82	1.83		.00	1.44	.17	2.23		--	209	33	1.8
							33	21	46			.38	4	58					
06/25/75	5050			9.1	68 F			--	--	--	0	105	--	--	--	--			6C
1125	5001		100	27 C	7.7	530					.00	1.72				--	19.0		S
07/23/75	5050			7.1	75 F	7.5	563	--	--	--	0	117	--	--	--	--			8AF
1005	5001	1		84	24 C	7.5					.00	1.92				--	28.0		S
08/27/75	5050	23.45	8.2	75.2F	7.6	600	34	14	61	--	0	125	9.2	116	--	.10	--	364	141
1330	5050		97	24.0C	7.7	605	1.70	1.15	2.05		.00	2.05	.19	3.27		--	296	40	2.2
							31	21	48			.37	3	59					
TUOLUMNE RIVER AT LA GRANGE BRIDGE																			
04/04/75	5050			10.8	48.2F	7.0	30	4.4	1.7	1.8	--	0	21	5.4	1.0	--	.00	--	18
0800	5050		94	9.0C	7.4	46	.22	.14	.08		.00	.34	.11	.03		--	25	1	0.2
							50	32	18			.71	23	6					X
05/29/75	5050			10.1	51.8F	7.0	30	4.0	2.4	1.8	--	0	24	2.6	1.3	--	.00	--	33
0830	5050		91	11.0C	7.0	49	.20	.20	.08		.00	.39	.05	.04		--	24	1	0.2
							42	42	17			.81	10	8					X
06/04/75	5050			9.4	69.8F	7.1	50	--	--	--	0	26	--	--	--	--			E
1300	5050		105	21.0C	7.3	55					.00	.43				--	40		S
09/24/75	5050			10.5	55.9F	6.8	32	5.2	1.0	1.8	--	0	21	3.4	.0	--	.00	--	26
1400	5050		100	13.3C	7.7	43	.26	.08	.08		.00	.34	.07	.00		--	22	0	0.2
							62	19	19			.83	17						
TURLOCK SEWAGE TREATMENT PLANT																			
06/24/75	5050			3.4	70 F		685	--	--	--	20	247	--	--	--	--			25C
1255	5001		38	21 C	9.0						.67	4.05				--	26.0		S
07/22/75	5050			5.8	77 F	8.1	621	--	--	--	23	270	--	--	--	--			16AF
1145	5001	1		77	25 C	8.9					.77	4.43				--			S
09/30/75	5050			11.4	73 F	8.8	740	--	--	--	0	303	--	--	--	--			17AF
1345	5001	1		134	23 C	8.0					.00	4.97				--			S
MODESTO SEWAGE TREATMENT PLANT																			
06/24/75	5050			3.0	72 F			--	--	--	0	288	--	--	--	--			32C
1405	5001		34	22 C	8.0	1050					.60	4.72				--	59.0		S
07/22/75	5050			9.0	82 F	9.2	1530	--	--	--	39	229	--	--	--	--			34AF
1300	5001	3		126	28 C	9.2					1.30	3.75				--	.6		S
09/30/75	5050			0.0	77 F	7.4	1510	--	--	--	0	418	--	--	--	--			120AF
1455	5001	3			25 C	7.4					.00	6.85				--			S
TURLOCK IRRIGATION DISTRICT LATERAL ORAIN NO 2																			
06/25/75	5050			12.9	63 F			--	--	--	0	74	--	--	--	--			7C
1035	5001		133	17 C	7.8	230					.00	1.21				--	15.4		S
07/23/75	5050			8.8	73 F	8.0	230	--	--	--	0	80	--	--	--	--			4AF
0940	5001	3		107	23 C	8.2					.00	1.31				--			

TABLE D-2 (Cont'd)

DATE TIME	SAMPLER LAB	G+M DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL ANALYSES OF SURFACE WATER										MILLIGRAMS PER LITER										MILLIGRAMS PER LITER					TUBS SAR	REH		
						MINERAL CONSTITUENTS IN										MILLIEQUIVALENTS PER LITER										PERCENT REACTANCE VALUE								
						CA	MG	NA	K	CO3	MG3	SO4	CL	NO3	8	F	SDS	TM	NCH	TURB	5AR	REH												
						CA	MG	NA	K	CO3	MG3	SO4	CL	NO3	8	F	SDS	TM	NCH	TURB	5AR	REH												
RD 4975.30 TURLOCK IRRIGATION DISTRICT LATERAL DRAIN NO 5																																		
07/22/75	5050			75	F 8.2	432	--	--	--	--	0	129	--	--	--	--	--	--	--	--	--													
1405	5001			24	C 7.7						0.00	2.11	--	--	--	--	21.6																	
2																																		
09/30/75	5050			7.3	F 8.0	522	--	--	--	--	0	164	--	--	--	--	--	--	--	--	--		11AF											
1545	5001			81	C 8.0						0.00	2.69	--	--	--	--	--																	
2																																		
RD 4976.30 TURLOCK IRRIGATION DISTRICT LATERAL DRAIN NO 6 AND 7																																		
06/24/75	5050			7.5	67.1F	7.8	317	--	--	--	--	--	--	--	--	--	--	--	--	--	4C													
1155	5001			81	19.5C												26.0																	
07/22/75	5050			6.8	73 F	7.5	375	--	--	--	--	0	131	--	--	--	--	--	--	--	3AF													
1100	5001			79	C 7.5						0.00	2.15	--	--	--	--	26.4																	
1																																		
09/30/75	5050			7.9	F 7.8	401	--	--	--	--	0	112	--	--	--	--	--	--	--	--	10AF													
1250	5001			88	C 7.8						0.00	1.84	--	--	--	--	21.0																	
1																																		
RD 5131.00 MERCED RIVER AT MILLIKEN BRIDGE																																		
12/19/74	5050			10.0	51.8F	7.0	70	8.5	2.6	7.6	--	0	41	5.3	3.2	3.3	.00	--	--	72	32	0	0.6	EX										
1330	5050			91	11.0C	7.6	97	4.2	21	3.3	--	0.00	1.07	1.11	1.09	1.05	--	--	--	51	0													
9																																		
04/03/75	5050			10.2	54.5F	7.3	55	7.4	2.6	4.2	--	0	36	3.6	1.9	--	.00	--	--	36	29	0	0.3	X										
0940	5050			96	12.5C	7.4	79	3.7	21	1.8	--	0.00	1.59	1.07	1.05	--	--	--	--	37	0													
9																																		
05/28/75	5050			8.1	60.8F	8.1	70	7.1	3.0	4.2	--	0	37	7.2	2.9	--	.00	--	--	53	30	0	0.3											
1200	5050			90	21.0C	7.5	70	3.5	25	1.8	--	0.00	1.61	1.15	1.08	--	--	--	--	43	0													
9																																		
06/24/75	5050			8.1	64 F	6.9	78	--	--	--	--	0	36	--	--	--	--	--	--	--	5C													
0900	5001			85	10 C	8.9						0.00	1.59	--	--	--	11.4																	
9																																		
07/22/75	5050			7.2	84 F	7.2	150	--	--	--	--	0	58	--	--	--	--	--	--	--	4AF													
0910	5001			93	29 C	7.2						0.00	1.45	--	--	--	18.6																	
3																																		
08/27/75	5050			8.1	73.4F	7.2	115	9.2	4.4	9.0	--	0	55	5.1	5.9	--	.00	--	--	80	41	0	0.6	T										
1200	5050			94	23.0C	7.5	123	4.6	36	3.9	--	0.00	1.90	1.11	1.17	--	--	--	--	61	0													
9																																		
RD 5166.50 CANAL CREEK AT OAKDALE ROAD																																		
02/05/75	5050			10.2	50.9F	7.3	45	5.7	2.7	4.1	--	0	28	5.6	3.0	--	.20	--	--	89	25	0	0.4	EX										
1730	5050			92	16.5C	6.5	90	2.8	22	1.8	--	0.00	1.46	1.12	1.08	--	--	--	--	35	2													
15E																																		
03/12/75	5050			10.3	59.4F	7.2	55	5.6	2.4	3.6	--	0	27	5.8	1.7	--	.10	--	--	38	24	0	0.3											
1530	5050			25	103	15.2C	6.4	58	2.8	2.0	--	0.00	1.44	1.12	1.05	--	--	--	--	32	2													
25																																		
04/16/75	5050			10.8	55.0F	7.9	50	6.6	1.8	2.8	--	0	29	3.1	1.4	--	.00	--	--	34	24	0	0.2	X										
1630	5050			150	102	12.8C	7.2	64	3.3	1.5	--	0.00	1.48	1.06	1.04	--	--	--	--	30	0													
150																																		
RD 6369.50 DUTCHMAN CREEK AT HARTER ROAD																																		
02/05/75	5050			10.1	48 F	7.2	96	9.2	5.0	13	--	0	58	10	4.7	--	.20	--	--	129	46	0	0.8	EX										
0850	5050			74	9 C	7.3	144	4.6	46	4.7	--	0.00	1.95	1.21	1.13	--	--	--	--	71	0													
9																																		
03/12/75	5050			8.1	53.0F	7.9	140	12	8.8	18	--	0	100	8.1	7.2	--	.20	--	--	142	66	0	1.0	EX										
0720	5050			2.6	75	11.7C	7.4	201	1.60	1.72	1.78	--	0.00	1.64	1.17	1.20	--	--	--	103	0													
9																																		
04/16/75	5050			3.77	9.0	53.6F	8.3	212	18	14	24	--	0	158	1.0	11	--	.00	--	164	101	0	1.0											
0755	5050				84	12.0C	8.1	296	1.90	1.15	1.64	--	0.00	2.59	1.02	1.31	--	--	--	146	0													
9																																		
RD 6399.50 DEACHMAN CREEK AT HARTER ROAD																																		
02/05/75	5050			10.1	48 F	7.2	70	7.2	3.6	10	--	0	44	12	2.8	--	.20	--	--	108	33	0	0.6	EX										
0705	5050			88	9 C	7.2	112	3.36	3.30	4.44	--	0.00	1.72	1.25	1.08	--	--	--	--	57	0													
9																																		
03/12/75	5050			9.1	52.9F	7.5	126	11	7.9	16	--	0	87	9.5	5.4	--	.10	--	--	121	60	0	0.9	T										
0800	5050			11	84	11.6C	7.5	181	1.55	1.65	1.70	--	0.00	1.44	1.26	1.15	--	--	--	93	0													
9																																		
04/16/75	5050			3.08	9.5	54.5F	7.9	172	15	9.8	20	--	0	122	8.2	7.7	--	.00	--	132	78	0	1.0	X										
0815	5050				90	12.5C	8.0	234	1.75	1.81	1.87	--	0.00	2.00	1.17	1.22	--	--	--	121	0													
9																																		
RD 7045.00 SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE																																		
12/19/74	5050			17.49	9.5	53.6F	7.1	680	29	16	82	--	0	115	82	96	4.8	.40	--	389	142	0												
1545	5050				88	12.0C	8.0	486	1.45	1.39	3.57	--	0.00	1.71	2.71	1.08	--	--	--	368	46	3.0												
9																																		
04/03/75	5050			18.71	9.1	55.4F	7.9	490	30	14	68	--	0	98	81	77	--	.40	--	338	135	0												
1100	5050				86	13.0C	8.0	602	1.50	1.20	2.92	--	0.00	1.61	1.69	2.17	--	--	--	319	55	2.5												
9																																		
05/28/75	5050			17.53	9.0	75.2F	7.9	500	27	15	61	--	0	104	58	80	--	.20	--	342	130	0												
1330	5050				106	24.0C	8.1	573	1.35	1.23	2.65	--	0.00	1.70	1.21	2.26	--	--	--	292	44	2.3												
9																																		

TABLE D-2 (Cont'd)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAW	G.W. Q DEPTH	DD SAT	TEMP	FIELD PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER					REH		
						LABORATORY	CA	MG	NA	K	CO3	HCO3	S04	CL	NO3	8	F	TDS		TH	TURB
H0 7040.00 SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE CONTINUED																					
06/25/75 085R	5050 5101						--	--	--	--	--	--	--	--	--	--	15.2				
07/23/75 082K	5050 5091		6.1 73	77 25	7.9 7.9	931	--	--	--	0 .00	141 2.31	--	--	--	--	--	18.4	746F			
08/27/75 1400	5050 5050	15.01	7.1 84	75.2F 24.0C	7.5 7.5	800 774	42 2.10	18 1.48	88 3.83	-- .00	154 2.52	77 1.00	119 3.36	-- 45	.30 --	-- 420	457 53	181 2.9			
H0 7090.00 SAN JOAQUIN RIVER NEAR GRAYSON																					
12/19/74 142K	5050 5130		9.5 9A	51.0F 11.0C	7.4 8.2	800 1100	44 2.20	27 2.22	141 6.13	-- .00	166 2.72	159 3.31	150 4.23	7.6 .12	.80 --	-- 611	647 85	221 4.1			
04/03/75 1250	5050 5050		9.4 8A	55.4F 13.0C	7.7 8.0	550 682	33 1.65	17 1.41	78 3.39	-- .00	109 1.79	105 2.19	85 2.40	-- 38	.50 --	-- 392	153 64	2.7			
05/28/75 1430	5050 5050		10.7 17A	73.4F 23.0C	8.2 8.1	550 900	27 1.25	16 1.32	67 2.91	-- .00	108 1.74	82 2.31	112 2.40	-- 42	.20 --	-- 315	348 47	134 2.5			
06/25/75 084K	5100 5091		8.6 8A	66 19	7.9	524	--	--	--	--	0 .00	112 1.84	--	--	--	--	11.6	34C			
07/23/75 090K	5050 5101		6.8 80	75 24	7.7 7.7	928	--	--	--	--	0 .00	178 2.92	--	--	--	--	17.0	604F			
08/27/75 1300	5100 5050		6.7 79	75.2F 24.0C	7.6 7.4	800 804	40 2.00	21 1.73	90 3.92	-- .00	162 2.66	88 1.83	111 3.13	-- 41	.30 --	-- 430	465 54	188 2.9			
H0 7203.00 SAN JOAQUIN RIVER AT PATTERSON BRIDGE																					
06/24/75 1730	5050 5091		8.4 9A	68 20	7.9	494	--	--	--	--	--	--	--	--	--	--	13.4	26C			
07/22/75 1220	5050 5091		8.9 113	82 28	8.1	756	--	--	--	--	0 .00	132 2.16	--	--	--	--	16.8	544F			
H0 7250.00 SAN JOAQUIN RIVER AT CHOWS LANDING BRIDGE																					
06/24/75 1140	5050 5091		8.1 89	68 20	7.9	464	--	--	--	--	--	--	--	--	--	--	13.0	29C			
07/22/75 1140	5050 5091		8.7 110	82 28	8.1	766	--	--	--	--	0 .00	124 2.03	--	--	--	--	16.4	504F			
H0 7375.00 SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE																					
12/19/74 1240	5050 5130	55.69	10.6 9A	50.0F 10.0C	7.6 8.2	1450 2060	87 4.39	53 4.39	274 11.92	-- .00	244 4.00	329 6.85	338 9.53	8.4 .10	1.50 --	-- 1270	437 237	5.7			
04/03/75 083R	5050 5050	57.87	8.8 83	55.4F 13.0C	7.5 8.1	1002 1330	67 3.34	32 2.65	160 6.96	-- .00	192 2.66	226 4.71	208 5.97	-- 44	1.10 --	-- 828	300 167	4.0			
05/21/75 131K	5050 5050		8.6 20	60.0F 13.0C	8.1 8.1	900 1080	68 3.39	15 1.23	4.6 5.79	-- .00	159 2.61	124 2.58	179 5.05	6.5 .10	.30 10.0	-- 630	232 101	3.8			
05/29/75 1100	5050 5050	56.26	10.3 119	73.4F 23.0C	8.2 8.0	1000 1098	48 2.40	28 2.30	128 5.57	-- .00	151 2.47	176 2.75	176 4.96	-- 49	.40 --	-- 635	237 112	3.6			
06/24/75 103K	5050 5091		7.6 4K	70 21	8.0	1145	--	--	--	--	--	--	--	--	--	--	15.4	35C			
07/22/75 103K	5050 5091		7.9 89	79 26	7.9	813	--	--	--	--	0 .00	132 2.16	--	--	--	--	17.8	384F			
08/20/75 1130	5050 5050			75 24	7.4 7.7	1000 1030	55 2.74	22 1.81	120 5.22	5.6 .14	0 .00	152 2.49	131 2.73	161 4.54	13.0 .21	.50 20.0	-- 603	629 103	230 3.5		
08/27/75 1000	5050 5050	57.11	7.4 86	73.4F 23.0C	7.6 7.7	900 937	40 2.35	23 2.1	112 4.4	-- .00	161 2.64	122 2.54	141 3.98	-- 43	.50 --	-- 569	211 78	3.4			
H0 7710.00 SAN JOAQUIN RIVER NEAR MENDOTA																					
12/11/74 1040	5050 5130		11.5 10R	48.2F 9.0C	8.3 8.0	300 470	24 1.20	12 1.00	50 2.18	-- .00	105 39	50 24	56 36	2.0 1	.20 --	-- 266	110 24	2.1			
04/08/75 1000	5050 5050	3.08	10.9 10K	56.3F 13.5C	7.6 7.9	320 429	24 1.20	12 1.00	42 1.83	-- .00	85 1.39	60 1.25	51 1.44	-- 35	.20 --	-- 261	110 41	1.7			
05/28/75 0830	5050 5050	3.72	9.0 102	71.0F 21.0C	8.0 8.0	382 393	23 1.15	8.6 2.71	38 1.65	-- .00	77 1.28	39 3.81	51 1.44	-- 41	.10 --	-- 193	93 30	1.7			
09/11/75 1000	5050 5050	3.46	7.3 85	73.4F 23.0C	7.6 8.0	330 411	21 1.05	12 1.09	40 1.74	-- .00	98 1.61	43 1.90	47 1.33	-- 36	.20 --	-- 232	104 22	1.7			

TABLE D-2 (Cont'd)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. DEPTH	00 SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER SILICA				TURB SAF	REMARKS
							CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	8	102	105	106		
WD 7085.00 SAN JOAQUIN RIVER AT FRIANT DAM																					
12/10/74	5050	1.84	10.3	49.1F	6.8	40	4.2	1.3	4.4	--	0	20	3.3	3.0	2.0	.00	--	44	16	0.5	E
1400	5050	91	9.5C	7.1	53	41	.21	.11	.37	.00	.33	.07	.08	.03	--	--	28	0	0.5	T	
04/02/75	5050	2.07	10.0	50.0F	7.0	52	6.7	1.8	7.4	--	0	34	1.8	4.6	--	.10	--	40	24	0.7	A
0700	5050	89	10.0C	7.3	80	43	.33	.15	.32	.00	.56	.04	.13	--	--	--	39	0	0.7	T	
05/27/75	5050	2.87	12.0	53.0F	7.5	100	3.9	1.1	4.8	--	0	20	1.0	4.2	--	.00	--	35	14	0.6	A
1000	5050	111	11.7C	7.2	51	39	.19	.09	.21	.00	.33	.02	.12	--	--	--	25	0	0.6	T	
09/16/75	5050	2.16	6.4	52.7F	6.8	40	3.9	.6	3.6	--	0	16	2.5	2.0	--	.00	--	36	12	0.4	E
0700	5050	59	11.5C	7.6	45	35	.19	.05	.16	.00	.26	.05	.05	--	--	--	20	0	0.4	T	
RD 7086.50 SAN JOAQUIN RIVER AT NORTH FORK ROAD BRIDGE																					
10/08/74	5050	11.0	9.1F	6.8	30	3.7	.7	3.0	--	0	18	.2	.5	--	.00	--	40	12	0.4	E	
0615	5050	91	9.5C	7.5	43	3.8	.18	.06	.13	.00	.30	.00	.01	--	--	--	17	0	0.4	T	
07/09/75	5050	9.3	52.7F	6.8	30	--	--	--	--	0	14	--	--	--	--	--	30			E	
0700	5050	86	11.5C	6.8	36	--	--	--	--	.00	.23	--	--	--	--	--				S	
RD 1158.10 STANISLAUS RIVER BELOW TULLOCK DAM																					
12/20/74	5050	12.92	11.1	50.9F	7.4	55	8.7	1.8	2.5	--	0	34	3.1	.0	.8	.00	--	44	29	0.2	A
0930	5050	100	10.5C	7.8	70	62	.22	.16	--	.00	.08	.00	.01	--	--	--	34	1	0.2	T	
04/04/75	5050	11.6	46.2F	7.3	65	8.4	4.4	3.5	--	0	47	6.4	1.0	--	.10	--	52	39		A	
0700	5050	101	9.0C	7.6	94	42	.36	.15	--	.00	.77	.13	.03	--	--	--	47	1	0.2	T	
05/29/75	5050	11.0	55.4F	8.4	32	26	2.1	2.0	--	0	20	1.2	1.0	--	.00	--	27	15		E	
0630	5050	105	13.0C	7.0	37	1.30	.17	.09	--	.00	.33	.02	.03	--	--	--	42	57	0.1	T	
09/17/75	5050	15.50	10.4	77.0F	7.9	90	8.6	4.2	4.0	--	0	48	9.4	2.0	--	.00	--	64	39	0.3	E
1630	5050	126	25.0C	7.7	96	43	.35	.17	--	.00	.79	.20	.16	--	--	--	52	0	0.3	T	
RD 1400.50 STANISLAUS RIVER AT PARROTTS FERRY BRIDGE																					
05/29/75	5050	11.2	51.6F	8.4	30	4.1	.7	1.8	--	0	16	3.3	.9	--	.00	--	53	13	0.2	E	
0900	5050	104	11.0C	7.8	34	2.0	.08	.08	--	.00	.26	.07	.03	--	--	--	19	0	0.2	T	
06/18/75	5050	10.0	55.4F	8.3	25	--	--	--	--	0	16	--	--	--	--	--	30			E	
1130	5050	97	13.0C	7.4	30	--	--	--	--	.00	.26	--	--	--	--	--				S	
09/17/75	5050	9.4	61.7F	7.3	35	5.6	.5	1.8	--	0	23	2.5	.0	--	.00	--	31	16	0.2	E	
1230	5050	98	16.5C	7.7	41	2.8	.04	.08	--	.00	.38	.05	.00	--	--	--	22	0	0.2	T	
RD 2110.10 STANISLAUS RIVER NF AT CALAVERAS BIG TREES STATE PARK																					
06/18/75	5050	9.9	53.6F	6.8	18	--	--	--	--	0	10	--	--	--	--	--	24			E	
1330	5050	93	12.0C	7.0	20	--	--	--	--	.00	.16	--	--	--	--	--				S	
09/17/75	5050	8.2	66.2F	7.2	28	--	--	--	--	0	17	--	--	--	--	--	24			E	
1400	5050	90	19.0C	7.7	31	--	--	--	--	.00	.28	--	--	--	--	--				S	
RD 3255.00 STANISLAUS RIVER MIDDLE FORK AT REAROSLEY																					
06/18/75	5050	9.9	49.6F	8.3	25	--	--	--	--	0	18	--	--	--	--	--	34			E	
0900	5050	98	9.8C	7.4	34	--	--	--	--	.00	.30	--	--	--	--	--				S	
09/17/75	5050	8.6	60.8F	7.2	35	--	--	--	--	0	24	--	--	--	--	--	33			E	
0930	5050	98	16.0C	7.6	46	--	--	--	--	.00	.39	--	--	--	--	--				S	
RD 3480.10 STANISLAUS RIVER MIDDLE FORK AT GARDANELLE																					
06/18/75	5050	9.9	40.8F	8.1	20	--	--	--	--	0	20	--	--	--	--	--	33			E	
0630	5050	95	4.9C	7.5	32	--	--	--	--	.00	.33	--	--	--	--	--				S	
09/17/75	5050	8.3	58.1F	7.0	20	--	--	--	--	0	16	--	--	--	--	--	20			E	
0800	5050	100	14.5C	7.7	29	--	--	--	--	.00	.26	--	--	--	--	--				S	
RD 1265.50 TUOLUMNE RIVER ABOVE DON PEDRO RESERVOIR																					
12/20/74	5050	11.6	48.2F	6.8	20	2.2	.4	1.2	--	0	10	1.3	.2	.1	.00	--	14	7		E	
1100	5050	102	9.0C	6.9	20	2.1	.03	.05	--	.00	.16	.03	.01	.00	--	--	10	0	0.2	T	
RD 1290.10 TUOLUMNE RIVER AT MAROS FERRY BRIDGE																					
05/29/75	5050	10.9	53.6F	7.2	20	1.4	.8	1.4	--	0	10	.0	1.4	--	.00	--	21	7		E	
0914	5050	104	12.0C	7.2	20	.07	.07	.06	--	.00	.16	.00	.20	--	--	--	10	0	0.2	T	
06/04/75	5050	11.0	11.7F	6.8	12	--	--	--	--	0	6	--	--	--	--	--	18			E	
1100	5050	51	11.3C	6.8	15	--	--	--	--	.00	.10	--	--	--	--	--				S	
09/24/75	5050	8.1	80.6F	7.4	50	4.7	1.8	1.9	--	0	23	3.3	.0	--	.00	--	30	19		E	
1230	5050	103	27.0C	8.2	49	2.3	.15	.08	--	.00	.38	.07	.00	--	--	--	23	0	0.2	T	

TABLE D-2 (Cont'd)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G+H DEPTH	OD SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANTS VALUE				MILLIGRAMS PER LITER					REMARKS
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS	TH	TURB	
HA 1680.00 TUOLUMNE RIVER ABOVE EARLY INTAKE																				
06/04/75	5050		10.6	49.6F	6.8	10	--	--	--	0	3	--	--	--	--	15		E		
0900	5050		101	7.8C	6.6	11	--	--	--	.00	.05	--	--	--	--	--	S			
09/24/75	5050		9.6	50.8F	6.8	9	--	--	--	0	5	--	--	--	--	6		S		
0930	5050		100	13.8C	8.1	10	--	--	--	.00	.08	--	--	--	--	--				
HA 1850.10 TUOLUMNE RIVER AT TUOLUMNE MEADOWS																				
06/04/75	5050		9.5	35.8F	6.8	4	--	--	--	0	2	--	--	--	--	13		EX		
0630	5050		9.5	2.1C	6.7	10	--	--	--	.00	.03	--	--	--	--	--				
09/24/75	5050		7.9	46.9F	7.0	18	--	--	--	0	9	--	--	--	--	17		X		
0700	5050		93	8.3C	7.8	30	--	--	--	.00	.15	--	--	--	--	--	S			
HS R 735.7 01A.2 1 LAKE MCCLURE NEAR MCCLURE POINT																				
07/10/75	5050		10.7		8.3	5.2	1.9	1.9	.7	0	24	2.6	.5	.1	.00	--	33	21		
	5050				8.2	53	.26	.16	.08	.02	.39	.05	.01	.00	--	25	2	0.2		
							50	31	15	4	87	11	2							
HS R 736.7 007.9 1 LAKE MCCLURE AT BAUGY																				
09/03/75	5050		8.7		7.0	4.8	1.1	2.3	.6	0	20	1.8	1.0	--	.00	--	38	17		
1100	5050				7.3	48	.24	.09	.10	.02	.33	.04	.03		--	21	0	0.2		
							53	20	22	4	83	10								
HS 1200.00 MERCED RIVER BELOW EXCHEQUER DAM																				
12/20/74	5050		9.7	54.5F	6.8	35	4.2	1.8	1.8	--	0	18	2.6	1.0	.8	.00	--	30	18	
1330	5050		92	12.5C	7.1	42	.21	.15	.08	.00	.30	.05	.03	.01	.00	--	21	3	0.2	
							40	34	18		77	13	8	3						
04/04/75	5050		11.9	44.1F	7.4	45	6.3	1.8	2.3	--	0	27	3.3	.8	--	.00	--	36	23	
1010	5050		105	9.5C	7.5	60	.31	.15	.10	.00	.44	.07	.02		--	28	1	0.2		
							55	27	18		83	13	4							
05/29/75	5050		9.1	53.6F	7.2	35	4.5	2.2	2.6	--	0	24	3.3	1.4	--	.00	--	45	20	
0930	5050		87	12.0C	7.1	52	.22	.18	.11	.03	.39	.07	.04		--	26	1	0.3		
							43	35	22		78	14	8							
09/03/75	5050		9.0	55.0F	7.5	2.8	1.0	1.4	.2	0	12	1.5	.0	--	.00	--	21	11		
0800	5050		20.6	8.6	12.8C	7.0	30	.14	.08	.06	.01	.00	.20	.03	.00	--	13	0	0.2	
							48	28	21	3	87	13								
HS 1320.50 MERCED RIVER AT BAUGY																				
11/13/74	5050		11.2	70.7F	7.1	63	10	1.7	4.4	--	0	38	.0	3.7	--	.00	--	55	32	
1530	5050		129	21.5C	7.6	92	.50	.14	.19	.00	.62	.00	.10		--	38	1	0.3		
							60	17	23		86									
05/29/75	5050		9.7	69.8F	7.1	30	3.6	.7	1.9	--	0	15	.0	2.4	--	.00	--	28	12	
1100	5050		111	21.0C	7.2	36	.18	.06	.08	.00	.25	.00	.07		--	16	0	0.2		
							56	19	25		78		22							
HS 1410.10 MERCED RIVER ABOVE HIRICERBURG																				
11/13/74	5050		12.0	50.0F	7.3	40	6.8	1.2	4.0	--	0	27	5.4	3.4	--	.00	--	44	22	
1330	5050		130	10.0C	7.7	68	.34	.10	.17	.00	.44	.11	.10		--	34	0	0.4		
							56	16	28		68	17	15							
HS 1517.10 MERCED RIVER BELOW EL PORTAL																				
11/13/74	5050		11.1	47.5F	7.3	37	4.9	.4	3.2	--	0	20	.0	1.6	--	.00	--	36	14	
1130	5050		101	8.6C	7.4	50	.24	.03	.14	.00	.33	.00	.05		--	20	0	0.4		
							59	7	34		87		13							
HS 1519.50 MERCED RIVER AT JUNCTION BIG DAM FLAT RD AND HWY 140																				
11/13/74	5050		8.1	45.0F	6.8	30	3.5	.8	2.8	--	0	14	.0	2.6	--	.00	--	31	12	
0930	5050		76	7.2C	6.9	42	.17	.07	.12	.00	.23	.00	.07		--	17	1	0.4		
							47	19	33		77		23							
HS 1700.00 MERCED RIVER AT HAPPY ISLES BRIDGE NEAR YOSEMITE																				
11/13/74	5050		1.37	11.3	40.6F	7.0	29	3.0	4.4	--	0	9	.0	3.3	--	.00	--	29	9	
0710	5050		101	4.8C	7.1	34	.15	.03	.10	.00	.15	.00	.09		--	14	2	0.3		
							54	11	36		63		38							
HS 5152.10 BEAR CREEK ABOVE BEAR CREEK RESERVOIR																				
02/05/75	5050		10.8	49.1F	7.5	75	8.0	5.6	5.1	--	0	51	10	.8	--	.10	--	96	43	
1445	5050		300E	9.6	9.5C	7.5	105	.40	.46	.22	.00	.84	.21	.02	--	55	1	0.3		
							37	43	20		79	20	2							
03/12/75	5050		10.6	52.7F	8.0	132	15	10	8.6	--	0	101	8.9	4.0	--	.10	--	108	81	
1100	5050		65	9.8	11.5C	8.1	188	.75	.82	.37	.00	1.66	.19	.11	--	96	0	0.4		
							39	42	19		85	10	6							
04/16/75	5050		9.5	59.9F	7.9	185	20	12	10	--	0	127	9.0	5.7	--	.00	--	144	101	
1430	5050		15	9.6	15.5C	7.9	237	1.00	.99	.44	.00	2.68	.19	.16	--	119	0	0.4		
							41	41	18		86	8	7							
HS 6152.50 BURNS CREEK AT MERCED MARIPOSA COUNTY LINE																				
02/05/75	5050		10.2	52.7F	7.5	105	11	7.9	7.3	--	0	64	15	2.0	--	.10	--	121	60	
1825	5050		50E	11.5C	7.6	148	.55	.65	.32	.00	1.05	.31	.06		--	75	8	0.4		
							36	43	21		74	22	4							
03/12/75	5050		10.5	51.3F	7.4	156	16	13	12	--	0	112	15	6.1	--	.10	--	143	93	
0930	5050		35	9.6	10.7C	7.7	227	.40	1.07	.52	.00	1.84	.31	.17	--	117	2	0.5		
							33	45	22		79	13	7							
04/16/75	5050		10.3	53.6F	8.0	205	21	16	14	--	0	144	19	6.8	--	.00	--	158	118	
0915	5050		8.0	9.6	12.0C	8.0	293	1.05	1.32	.61	.00	2.36	.40	.19	--	148	1	0.6		
							35	44	20		80	14	6							

TABLE D-2 (Cont'd)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	G.M. DEPTH	SAT	TEMP	FIELD LABORATORY PW EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					REMARKS
						CA	MG	NA	K	CO ₃	SO ₄	CL	NO ₃	8	5102	TDS	TH	TURB	SAR		
St 2020.10 OWENS CREEK ABOVE OWENS RESERVOIR																					
02/05/75	5050																				
1250	5050	75E	10.8	50	F 7.8	115	14	8.0	8.2	--	0	84	8.4	2.7	--	.20	--	140	68	0.4	EA
					C 7.8	168	.70	.88	.38	.00	1.80	.19	.08				83				T
							41	38	21			84	12	5							
03/12/75	5050		11.0	52	F 8.2	210	26	17	15	--	0	171	9.2	8.2	--	.10	--	180	134		A
0920	5050	12	101	11	C 8.1	304	1.30	1.40	.65	.00	2.80	.19	.23				160	0	0.6		
							39	42	19			87	6	7							
04/16/75	5050		11.3	50.0F	8.4	249	30	17	16	--	0	186	7.9	9.3	--	.00	--	197	144		A
1245	5050		113	15.0C	8.2	326	1.50	1.40	.70	.00	3.05	.16	.26				172	0	0.6		
							42	34	19			88	5	7							
St 2204.10 MARIPOSA CREEK ABOVE MARIPOSA RESERVOIR																					
02/05/75	5050																				
1040	5050	200E	11.1	47.3F	7.4	60	8.3	7.4	5.0	--	0	51	7.7	1.2	--	.10	--	89	53	0.3	EA
					8.5C	104	.41	.65	.22	.00	.84	.16	.03				55	11			T
							32	51	17			82	16	3							
03/12/75	5050		11.3	54.0F	8.2	121	11	10	8.6	--	0	87	8.7	3.5	--	.10	--	100	69		A
1100	5050	121	107	12.2C	8.1	168	.55	.82	.37	.00	1.43	.18	.10				85	0	0.5		
							32	47	21			84	11	6							
04/16/75	5050		10.9	53.6F	8.2	135	15	9.8	8.6	--	0	99	6.1	3.6	--	.00	--	114	78		A
1200	5050		102	12.0C	7.9	184	.75	.81	.37	.00	1.62	.13	.10				92	0	0.4		
							39	42	19			88	7	5							
St 4200.00 CHOCOMILLA RIVER NR RAYMOND																					
12/11/74	5050	6A.70	11.3	49.1F	7.4	230	28	6.1	28	--	0	84	6.4	5.6	.2	.10	--	222	95		A
1340	5050		101	9.5C	8.1	353	1.40	.50	1.22	.00	1.44	.11	1.58	.00			167	23	1.3		T
							45	16	39			84	4	50							
04/02/75	5050		11.2	50.9F	7.5	92	12	3.4	11	--	0	65	4.4	6.6	--	.00	--	95	44		EX
	5050		102	10.5C	7.8	133	.60	.28	.48	.00	1.07	.09	.19				69	0	0.7		T
							44	21	35			74	7	14							
05/28/75	5050	2.03	8.1	78.8F	7.8	165	16	1.4	13	--	0	70	.0	13	--	.00	--	119	46		E
1445	5050		101	26.0C	8.1	157	.80	.12	.57	.00	1.15	.00	.37				78	0	0.6		T
							44	8	38			76	3	24							
09/16/75	5050		7.6	69.8F	7.3	370	36	7.3	42	--	0	90	2.0	8.9	--	.00	--	283	120		A
0800	5050		86	21.0C	8.0	468	1.80	.80	1.83	.00	1.92	.04	2.51				225	34	1.7		T
							43	14	43			1	50								
St 7150.00 FRESNO RIVER NR DAULTON																					
12/11/74	5050		11.2	46.4F	7.2	110	12	2.7	15	--	0	51	4.3	20	.3	.10	--	110	41		A
1300	5050		96	8.0C	7.6	158	.40	.22	.45	.00	.84	.00	.96	.00			79	0	1.0		T
							41	15	44			57	6	35							
04/02/75	5050		11.2	51.8F	7.3	85	11	2.6	11	--	0	56	5.1	6.8	--	.00	--	80	38		A
0930	5050		103	11.0C	7.6	123	.55	.21	.48	.00	.93	.11	.18				64	0	0.6		
							44	17	16			76	9	15							
05/28/75	5050		9.4	71.6F	8.2	65	4.3	2.6	5.5	--	0	31	.0	4.2	--	.00	--	53	21		E
1410	5050		108	22.0C	7.7	70	.21	.21	.24	.00	.51	.00	.12				32	0	0.5		T
							32	32	36			81	19								
St 1100.00 SAN JOAQUIN RIVER BELOW KERCKHOFF NEAR PRATHER																					
10/10/74	5050	5.71		65.5F	7.1	28	2.3	.8	3.0	--	0	12	1.2	2.2	--	.00	--	16	9		
	5050			18.6C	7.0	24	.11	.07	.13	.00	.20	.02	.06				15	0	0.4		
							35	23	42			71	7	21							
12/10/74	5050		10.9	49.1F	7.1	25	2.7	.8	3.0	--	0	13	2.1	2.4	1.3	.10	--	35	10	0.4	EA
1100	5050		97	9.5C	6.9	36	.13	.07	.13	.00	.21	.04	.07	.02			19	0			T
							39	21	30			62	12	21							
05/27/75	5050		11.7	52.0F	7.2	33	.9	1.0	1.8	--	0	9	.0	2.8	--	.00	--	23	6		EA
1110	5050		108	11.1C	7.1	21	.04	.08	.08	.00	.15	.00	.08	.35			11	0	0.3		T
							20	40	40			65									
09/16/75	5050		8.7	63.0F	6.7		2.6	.1	1.9	--	0	10	2.1	.0	--	.00	--	20	7		E
1400	5050		92	17.2C	7.7	23	.13	.01	.08	.00	.16	.04	.00				12	0	0.3		T
							59	5	36			20									
St 1108.00 KERCKHOFF RESERVOIR NEAR AUBERRY																					
10/10/74	5050			66.2F	7.0	26	2.6	.1	3.0	--	0	13	.6	.8	--	.00	--	14	7		
0001	5050			19.0C	6.9	28	.13	.01	.13	.00	.21	.01	.02				13	0	0.5		
							48	4	48			88	4	8							
St 1340.00 SAN JOAQUIN RIVER ABOVE WILLOW CREEK NEAR AUBERRY																					
10/08/74	5050		8.4	49.5F	6.8	22	1.8	.6	1.8	--	0	10	.0	.5	--	.00	--	21	7		E
0830	5050		79	9.7C	7.2	24	.09	.05	.08	.00	.16	.00	.01				10	0	0.3		T
							41	23	36			94	6								
07/09/75	5050		10.0	54.5F	6.8	15	--	--	--	--	0	6	--	--	--	--	--	20			E
0930	5050		97	12.5C	6.6	18	--	--	--	.00	.10	--	--	--	--	--	--				S
St 1406.00 MUSIC CREEK # 1 NEAR SHAWER LAKE																					
11/08/74	5050		0.44			44	3.4	.9	3.4	--	0	18	.5	2.3	.1	.00	--	42	12		E
1400	5050		.43		7 C 7.0	46	.17	.07	.15	.00	.30	.01	.06	.00			19	0	0.4		T
							44					81	3	16							
05/19/75	5050		0.99			35	3.1	.8	2.6	--	0	17	.6	2.4	--	.00	--	30	11		E
1020	5050				7.1	34	.15	.07	.11	.00	.28	.01	.07				18	0	0.3		T
							45	21	33			78	3	19							

TABLE D-2 (Cont'd)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. U DEPTH	NO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER					REM	
							CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	B	F	TOS SUM	TH NCH		TURB SAW
.....																					
H7 1408.00 MUSIC CREEK # 2 NEAR SHAVER LAKE																					
11/08/74	5050	1.06		43 F	56	4.6	1.3	4.2	--	0	28	40	1.3	.2	.00	--	--	48	17	0	E
1500	5050	1		6 C 7.3	55	2.3	11	18	--	0	46	40	1.3	.8	.00	--	--	25	0	0.4	T
05/19/75 5050 1.42 7.1 34 3.1 .8 2.6 -- 0 17 .46 2.5 -- .00 -- 33 11 0 0.3 E																					
0920	5050				34	1.5	.07	11	--	0	28	41	.07			--	--	18	0	0.3	T
H7 1532.40 SAN JOAQUIN RIVER BELOW SHAKEFLAT CREEK																					
10/08/74	5050	9.7	65.3F	7.2	50	4.5	1.7	4.8	--	0	21	1.0	3.2	--	.00	--	--	42	14		E
1240	5050	114	14.5C	7.4	57	2.2	.06	.21	--	0	34	4.2	.39			--	--	25	0	0.6	T
07/09/75 5050 10.2 55.4F 4.1 15 -- -- -- 0 7 -- -- -- -- 16 E																					
1230	5050	106	13.0C	7.1	16				--	0	.11					--	--				S
H7 1910.00 FRONT KERN CANAL AT FRIANT																					
04/02/75	5050	12.0	44.6F	7.2	32	3.6	1.8	4.2	--	0	19	3.3	2.6	--	.00	--	--	20	13		A
0800	5050	107	9.8C	7.1	45	1.8	.08	.18	--	0	.31	.07	.07			--	--	24	0	0.5	T
05/27/75 5050 12.1 54.0F 7.1 44 2.3 1.3 3.3 -- 0 17 .0 2.8 -- .00 -- 44 11 0 0.4 E																					
1030	5050	114	12.2C	7.4	38	1.1	11	14	--	0	28	.00	.08			--	--	18	0	0.4	T
09/16/75 5050 8.5 69 F 7.4 20 2.0 1 1.8 -- 0 10 1.8 .0 -- .00 -- 20 7 E																					
1300	5050	95	21 C	7.6	23	1.2	.01	.18	--	0	16	.04	.00			--	--	11	0	0.3	T
H7 4250.40 SAN JOAQUIN RIVER SOUTH FORK AT MONO HOT SPRINGS																					
10/09/74	5050	9.4	47.3F	6.4	20	2.3	.4	2.1	--	0	9	.6	.8	--	.10	--	--	20	7		EX
1700	5050	101	8.5C	7.0	27	1.1	.03	.09	--	0	.15	.01	.02			--	--	11	0	0.3	T
07/08/75 5050 7.4 62.6F 6.8 24 -- -- -- 0 8 -- -- -- -- 22 E																					
0930	5050	10	97	17.0C	6.8	24			--	0	.13					--	--				S
HR 1253.10 GRISWOLD CREEK ABOVE PANOCHE VALLEY																					
12/03/74	5050				300	284	1380	19	0	566	3980	236	2.3	14.0	--	6530	1920				E
1030	5050				4.3	7700	14.97	23.36	50.03	.49	0	9.28	82.86	6.66	.06	--	--	6494	1454	13.7	C
Cu 1140.00 KINGS RIVER BELOW PEOPLES WEIR																					
12/16/74	5050	2.73	10.7	56.0F	7.3	175	21	9.1	17	--	0	116	15	7.9	6.0	.00	--	150	90		A
1005	5050	95	10.0C	4.2	244	1.05	.75	.74		--	0	1.90	.31	.22	.10	--	--	133	0	0.8	T
03/04/75 5050 3.08 11.0 52.7F 7.0 38 4.8 1.4 3.5 -- 0 22 3.1 2.5 -- .10 -- 35 18 A																					
0930	5050	102	11.5C	7.3	51	2.4	.12	.15	--	0	.36	.06	.07			--	--	26	0	0.4	T
05/27/75 5050 9.9 62.6F 7.8 95 4.1 1.7 3.4 -- 0 30 .0 2.4 -- .00 -- 57 17 EX																					
0930	5050	103	17.0C	7.5	52	2.0	.14	.15	--	0	.49	.00	.17			--	--	26	0	0.4	T
09/03/75 5050 9.3 60.8F 7.2 40 3.9 1.3 2.8 -- 0 20 2.6 2.0 -- .00 -- 32 15																					
1200	5050	104	21.0C	7.3	46	1.4	.11	.12	--	0	.33	.04	.06			--	--	22	0	0.3	T
Cu 2185.00 KAWAHEH RIVER BELOW TERMINUS DAM																					
12/16/74	5050	11.3	51.8F	7.9	120	4.5	10		--	0	79	8.1	6.4	1.4	.10	--	--	108	66		A
1120	5050	104	11.0C	7.0	167	.95	.37	.44		--	0	1.29	.17	.18	.02	--	--	88	2	0.5	T
03/04/75 5050 10.9 55.4F 7.0 125 19 4.2 1.1 -- 0 83 8.2 8.2 -- .10 -- 113 65 A																					
1030	5050	105	13.0C	7.7	174	.95	.35	.48	--	0	1.36	.17	.23			--	--	92	0	0.6	T
05/28/75 5050 11.1 57.2F 7.2 50 6.0 1.2 3.2 -- 0 28 2.6 2.1 -- .00 -- 49 20 E																					
0830	5050	109	14.0C	7.2	54	.30	.10	.14	--	0	.46	.05	.06			--	--	29	0	0.3	T
09/02/75 5050 8.6 78.8F 7.3 75 8.3 2.3 4.2 -- 0 38 2.3 4.0 -- .00 -- 50 30																					
1200	5050	107	26.0C	7.4	79	4.1	.19	.18	--	0	.62	.05	.11			--	--	40	0	0.3	T
Cu 2550.30 KAWAHEH RIVER AT LEMONCOVE																					
10/16/74	5050	9.8	76.0F	7.5	120	15	2.8	4.9	--	0	63	4.1	3.4	--	.00	--	--	72	49		A
1430	5050	111	21.1C	7.4	126	.75	.23	.30	--	0	1.03	.09	.10			--	--	63	0	0.4	T
04/23/75 5050 11.2 57.0F 7.4 112 -- -- -- 0 56 -- -- -- -- 69																					
1400	5050	110	13.9C	7.7	108				--	0	.92					--	--				S
08/06/75 5050 8.6 74.3F 7.1 50 -- -- -- 0 25 -- -- -- -- 38 E																					
1400	5050	102	23.5C	7.0	51				--	0	.41					--	--				S
Cu 3195.00 TILE RIVER AT NORTH BRIDGE NEAR PORTERVILLE																					
10/30/74	5050	7.8	65.4F	7.7	232	24	11	12	--	0	148	5.1	5.4	--	.00	--	--	151	108		A
1500	5050	84	16.0C	7.6	270	1.20	.96	.52	--	0	2.43	.11	.15			--	--	131	0	0.5	T
04/09/75 5050 11.8 56.3F 7.8 140 -- -- -- 0 73 -- -- -- -- 150																					
1320	5050	115	13.5C	8.0	240				--	0	1.20					--	--				S

TABLE D-2 (Cont'd)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. DEPTH	OD SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER EQUIVALENTS PER LITER					MILLIGRAMS PER LITER PERCENT REACTANCE VALUE					8	F	TDS SUM	TH NCH	TURB SAM	REMARKS
							CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	PERCENT	REACTANCE	VALUE	PERCENT	REACTANCE	VALUE						
CO 3195.00 TULE RIVER AT WORTH BRIDGE NEAR PORTERVILLE CONTINUED																											
08/20/75	5050		8.0	75.2F	7.0	145	--	--	--	--	0	93	--	--	--	--	--	--	--	--	97						
1430	5050		96	24.0C	7.6	168					.00	1.52														S	
09/02/75	5050	5.51	7.4	80.6F	7.2	200	20	5.6	9.8	--	0	105	1.2	5.9	--	.10	--	119	73			0	0.5			T	
1330	5050		94	27.0C	7.7	192	1.00	.46	.43	--	0	1.72	.02	.17		--	--	94									
							53	24	23			.90	1	9													
CO 3196.00 TULE RIVER BELOW SUCCESS DAM																											
12/16/74	5050	6.37	7.7	59.9F	7.5	345	45	20	22	--	0	266	6.6	8.0	2.7	.10	--	256	198			0	0.7			A	
1400	5050		78	15.5C	8.3	448	2.35	1.71	.98	--	.00	4.36	.14	.23	.04	--	--	236									
							46	35	20			.91	3	5	1												
03/04/75	5050	3.05	11.9	53.2F	8.0	198	32	7.5	17	--	0	153	7.9	1.0	--	.20	--	173	111			0	0.7			X	
1230	5050		111	11.8C	7.9	279	1.60	.62	.74	--	.00	2.51	.16	.28		--	--	150									
							54	21	25			.85	5														
05/27/75	5050	3.94	11.2	57.2F	7.4	170	24	5.4	12	--	0	118	5.1	5.2	--	.10	--	144	82			0	0.8			X	
1400	5050		110	14.0C	7.9	214	1.20	.44	.52	--	.00	1.93	.11	.15		--	--	110									
							56	26	24			.88	5	7													
CO 5150.00 MEAN RIVER NR BAKERSFIELD																											
12/17/74	5050		11.7	49.1F	8.3	105	11	3.0	13	--	0	60	9.2	4.1	.9	.20	--	74	40			0	0.9			A	
1010	5050		104	9.5C	8.0	134	.55	.25	.57	--	.00	.98	.19	.12	.01	--	--	71									
							40	18	42			.75	15	9	1												
03/05/75	5050		10.9	51.8F	7.4	100	11	2.9	14	--	0	63	8.7	6.5	--	.20	--	83	40			0	1.0			X	
1200	5050		108	11.0C	7.7	142	.55	.24	.61	--	.00	1.17	.18	.16		--	--	74									
							39	17	44			.74	13	13													
05/27/75	5050		9.8	68.0F	8.0	115	6.7	3.5	12	--	0	57	7.9	4.0	--	.10	--	78	36			0	0.9				
1150	5050		109	20.0C	7.7	124	.43	.29	.52	--	.00	.93	.16	.11		--	--	64									
							35	23	42			.78	13	9													
09/03/75	5050		8.4	71.6F	7.6	100	9.2	2.2	9.8	--	0	50	3.1	4.4	--	.10	--	64	32			0	0.8				
0945	5050		97	22.0C	7.7	111	.46	.18	.43	--	.00	.82	.06	.12		--	--	53									
							43	17	40			.82	6	12													
CO 5160.10 MEAN RIVER AT HART PARK																											
10/02/74	5050		9.6		7.7		9.4	1.6	10	--	0	47	6.2	3.2	--	.10	--	66	30			0	0.8				
1300	5050				7.1	103	.47	.13	.44	--	.00	.77	.13	.19		--	--	54									
							45	13	42			.78	13	9													
03/05/75	5050		11.1	52.7F	8.4	105	12	3.2	14	--	0	65	18	5.7	--	.20	--	80	43			0	0.9			X	
1245	5050		103	11.5C	7.7	144	.60	.26	.61	--	.00	1.07	.37	.16		--	--	85									
							41	18	41			.67	23	10													
07/23/75	5050		8.3	73.4F	7.4	97	--	--	--	--	0	.45	--	--	--	--	--	56									
1400	5050		98	23.0C	7.5	98						.00	.74	--	--	--	--									S	
CO 5166.10 MEAN RIVER AT RANCHOJA BRIDGE																											
10/02/74	5050		9.3		7.7		9.1	1.8	10	--	0	48	5.3	3.0	--	.10	--	55	30			0	0.8				
1200	5050				7.5	104	.45	.15	.44	--	.00	.79	.11	.08		--	--	53									
							43	14	42			.91	11	8													
03/05/75	5050		10.6	50.9F	7.5	100	12	2.7	14	--	0	64	12	5.3	--	.20	--	82	41			0	1.0			A	
1140	5050		97	16.5C	7.5	143	.60	.22	.61	--	.00	1.05	.25	.15		--	--	78									
							42	15	43			.72	17	10													
07/23/75	5050		8.2	73.4F	7.5	93	--	--	--	--	0	.44	--	--	--	--	--	60									
1330	5050		97	23.0C	7.5	97						.00	.72	--	--	--	--									S	
CI 1115.50 KINGS RIVER NEAR PIEDRA																											
10/23/74	5050		10.2	61.7F	7.2	25	2.6	.6	1.2	--	0	11	1.0	.0	--	.00	--	22	9			0	0.2			E	
1545	5050		106	16.5C	7.4	27	.13	.05	.05	--	.00	.18	.02	.00		--	--	11								T	
							57	22	22			.90	10														
05/07/75	5050		11.9	51.6F	8.4	30	--	--	--	--	0	.19	--	--	--	--	--	28								X	
1100	5050		109	11.0C	7.4	42						.31	--	--	--	--	--									S	
CI 1140.00 KINGS RIVER BELOW PINE FLAT RESERVOIR																											
12/10/74	5050	0.89	9.5	52.7F	7.2	25	2.7	.8	1.6	--	0	13	1.3	.2	.5	.00	--	21	10			0	0.2			E	
0850	5050		84	11.5C	7.0	26	.13	.07	.07	--	.00	.21	.03	.01	.01	--	--	13								T	
							49	26	26			.81	12	4													
03/04/75	5050	5.30	10.8	48.0F	7.0	25	3.0	1.1	2.6	--	0	.16	2.1	1.0	--	.00	--	27	12			0	0.3			EA	
0735	5050		88	9.2C	7.0	37	.15	.09	.11	--	.00	.26	.04	.03		--	--	18									
							43	26	31			.79	12	9													
05/28/75	5050	6.87	11.8	54.5F	7.2	40	4.2	1.1	3.4	--	0	.20	3.0	1.4	--	.00	--	43	15			0	0.4			E	
1000	5050		113	12.5C	7.1	45	.21	.09	.15	--	.00	.33	.06	.04		--	--	23								T	
							47	20	33			.77	14	9													
09/02/75	5050	4.69	9.6	59.0F	8.4	15	1.5	.8	1.2	--	0	9	1.5	1.0	--	.00	--	19	7			0	0.2			EA	
0700	5050		97	15.0C	7.2	21	.07	.07	.05	--	.00	.15	.03	.03		--	--	10								T	
							37	37	26			.71	14	14													
CI 1320.00 BIG CREEK ABOVE PINE FLAT RESERVOIR																											
10/23/74	5050	1.38	10.1	60.2F	7.9	130	12	2.7	11	--	0	57	5.9	12	--	.00	--	103	41			0	0.7			T	
1330	5050		112	14.0C	7.7	144	.60	.22	.48	--	.00	.93	.12	.14		--	--	72									
							46	17	37			.67	9	24													
05/07/75	5050	2.86	10.3	55.4F	7.4	50	--	--	--	--	0	.34	--	--	--	--	--	50								EA	
1230	5050		101	13.0C	7.4	66						.00	.56	--	--	--	--										

TABLE D-2 (Cont'd)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE# LAB	G.W. Q DEPTH	00 SAT	TEHR	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					REM
						CA	MG	NA	K	CO3	NO3	CL	NO3			8	F	105	TH	100B	REM
C1 1400.00 KINGS RIVER BELOW NORTH FORK																					
10/23/74	5050		10.6	59.0F	7.3	45	5.4	18	3.4	--	0	24	2.6	.9	--	.00	--	43	17		E
1215	5050		108	15.0C	7.4	55	2.7	15	1.5	.00	23	.05	.03					25	0	0.4	T
							55	14	31			83	11	6							
05/07/75	5050	5.26	10.9	55.0F	7.2	30	--	--	--	--	0	18	--	--	--	--	--	26			X
1340	5050		106	12.0C	7.3	40	--	--	--	--	0	30	--	--	--	--	--				5
05/28/75	5050		11.4	55.4F	8.3	20	1.1	18	1.2	--	0	7	.0	1.4	--	.00	--	22	6		E
1115	5050		111	13.0C	7.1	18	.05	.07	.05	.00	.11	.00	.04					8	1	0.2	T
							29	41	29			73	27								
09/02/75	5050		9.1	66.2F	7.5	35	4.6	1.8	3.2	--	0	20	3.3	1.0	--	.00	--	34	19		EX
0900	5050		101	19.0C	7.5	47	.23	.15	.14	.00	.33	.07	.03					24	3	0.3	T
							44	29	27			77	16	7							
C1 4115.30 KINGS RIVER SOUTH FORK AT CEDAR GROVE																					
10/23/74	5050		10.1	44.8F	7.3	34	4.6	1.4	3.4	--	0	15	5.3	1.6	--	.00	--	39	13		EX
0830	5050		98	7.1C	7.4	55	.23	.03	.15	.00	.25	.11	.05					23	1	0.4	T
							56	7	37			61	27	12							
05/07/75	5050		11.4	41.0F	7.6	22	--	--	--	--	0	10	--	--	--	--	--	18			X
0730	5050	700	105	5.0C	7.4	35	--	--	--	--	0	.16	--	--	--	--	--				5
C2 1210.30 KANEAH RIVER ABOVE LAKE KANEAH																					
10/16/74	5050		9.4	68.0F	7.6	125	17	2.1	8.3	--	0	68	4.5	5.7	--	.00	--	86	51		
1245	5050		107	26.0C	8.0	139	.85	.17	.30	.00	1.11	.09	.16					71	0	0.5	
							62	12	26			82	7	12							
04/23/75	5050		10.4	57.0F	7.5	92	--	--	--	--	0	42	--	--	--	--	--	55			
1300	5050		103	13.9C	7.6	92	--	--	--	--	0	.69	--	--	--	--	--				5
08/06/75	5050		8.0	77.9F	7.8	80	--	--	--	--	0	43	--	--	--	--	--	58			
1300	5050		99	25.5C	7.5	84	--	--	--	--	0	.70	--	--	--	--	--				5
C2 1250.00 KANEAH RIVER AT THREE RIVERS																					
12/16/74	5050		12.0	45.5F	7.4	65	12	2.0	4.8	--	0	51	3.3	2.4	.2	.00	--	60	38		X
1235	5050		107	7.5C	7.5	111	.00	.16	.21	.00	.84	.07	.07	.00				50	0	0.3	T
							62	16	22			86	7								
05/28/75	5050		10.4	55.4F	7.3	35	4.3	1.8	1.9	--	0	19	.0	1.9	--	.00	--	35	14		E
0745	5050		103	13.0C	7.3	35	.21	.07	.08	.00	.31	.00	.05					18	0	0.2	T
							58	19	22			.06	14								
09/02/75	5050		8.0	71.6F	7.5	95	12	2.2	5.8	--	0	52	2.5	5.9	--	.00	--	69	39		
1230	5050		103	22.0C	7.9	107	.60	.18	.25	.00	.85	.06	.17					54	0	0.4	T
							58	17	24			79	5	16							
C2 2010.30 KANEAH RIVER NORTH FORK NEAR MOUTH																					
10/16/74	5050		7.4	61.3F	7.6	158	24	4.1	7.9	--	0	102	3.7	2.5	--	.00	--	114	77		
0950	5050	2.0	78	15.7C	8.0	172	1.20	.34	.34	.00	1.67	.08	.07					92	0	0.4	
							84	18	18			92	4	4							
04/23/75	5050		10.8	53.0F	7.4	84	--	--	--	--	0	50	--	--	--	--	--	64			
1015	5050		102	11.7C	7.7	92	--	--	--	--	0	.82	--	--	--	--	--				5
08/06/75	5050		8.1	75.2F	7.6	118	--	--	--	--	0	74	--	--	--	--	--	89			E
0930	5050		98	24.0C	7.5	125	--	--	--	--	0	1.21	--	--	--	--	--				5
C2 3147.00 KANEAH RIVER NF BELOW NO 2 INTAKE NR THREE RIVERS																					
10/16/74	5050		9.2	59.0F	7.6	82	11	2.3	6.8	--	0	50	2.9	3.1	--	.00	--	56	37		
0820	5050		95	15.0C	7.7	98	.55	.19	.30	.00	.82	.06	.09					51	0	0.5	
							53	18	29			85	6	9							
04/23/75	5050		12.0	47.0F	7.4	54	--	--	--	--	0	28	--	--	--	--	--	32			
0900	5050		107	8.3C	7.3	54	--	--	--	--	0	.46	--	--	--	--	--				5
08/06/75	5050		8.1	70.7F	7.2	52	--	--	--	--	0	31	--	--	--	--	--	45			E
0830	5050		95	21.5C	7.2	62	--	--	--	--	0	.51	--	--	--	--	--				5
C2 4201.50 KANEAH RIVER SOUTH FORK ABOVE GROUSE CREEK																					
10/16/74	5050		9.0	64.9F	7.7	140	21	2.3	8.3	--	0	90	4.1	3.9	--	.00	--	100	66		
1115	5050	2.0	101	16.3C	7.9	157	1.05	.27	.36	.00	1.48	.09	.11					85	0	0.4	
							63	16	21			88	5	7							
04/23/75	5050		11.0	50.0F	7.5	98	--	--	--	--	0	51	--	--	--	--	--	63			
1150	5050		104	1.0C	7.7	93	--	--	--	--	0	.84	--	--	--	--	--				5
08/06/75	5050		8.2	71.6F	8.0	110	--	--	--	--	0	67	--	--	--	--	--	80			
1130	5050		99	22.0C	7.6	124	--	--	--	--	0	1.10	--	--	--	--	--				5

TABLE D-2 (Cont'd)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	0+M Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				TOX SUM	TH NCH	TURB SAR	REM
							CA	MG	NA	K	CO3	NC03	SO4	CL	NO3	8	F	SIO2				
C3 1929.30 TULE RIVER BELOW SPRINGVILLE																						
10/30/74	5050			12.1	57.0F	8.3	275	12	27	19	--	0	199	7.2	12	--	.10	--	204	144		X
1140	5050			119	13.9C	8.1	377	.60	2.28	.83	.00	3.26	.15	.34			--	176	0	0.7		
								16	61	22			87	4	9							
12/16/74	5050	3.75		11.6	51.8F	8.1	255	44	7.8	19	--	0	198	6.4	9.6	.1	.10	--	214	142		X
1440	5050			107	11.0C	8.3	346	2.20	.64	.83	.00	3.25	.13	.27	.00		--	184	0	0.7		
								60	17	23			89	4	7							
04/09/75	5050			11.2	50.4F	8.2	130	--	--	--	--	0	105	--	--	--	--	--	133			EX
1100	5050			102	10.2C	8.1	188	--	--	--	--	.00	1.72	--	--	--	--	--				S
05/27/75	5050	5.02		9.0	64.4F	8.0	78	11	1.8	4.6	--	0	49	.0	2.8	--	.00	--	65	35		E
1530	5050			105	18.0C	7.8	92	.55	.15	.20	.00	.80	.00	.08	9		--	44	0	0.3	T	
								61	17	22			91									
08/20/75	5050	3.44		9.2	76.1F	8.0	300	--	--	--	--	0	199	--	--	--	--	--	194			S
1200	5050			112	24.5C	8.2	336	--	--	--	--	.00	3.26	--	--	--	--	--				
09/02/75	5050	3.34		9.0	80.6F	8.1	310	40	9.0	20	--	1.0	201	4.6	11	--	.10	--	211	137		
1430	5050			114	27.0C	8.4	340	.74	.87	.24	.03	3.29	.10	.31			--	185	0	0.7	S	
								55	20	24			10									
C3 2190.10 TULE RIVER NORTH FORK AT BEAR CREEK ROAD																						
10/30/74	5050			10.0	53.6F	7.7	271	34	11	25	--	0	166	9.4	28	--	.00	--	213	130		X
0944	5050			97	12.0C	8.1	389	1.70	.90	1.09	.00	2.72	.20	.79			--	189	0	1.0		
								46	24	30			73	5	21							
04/09/75	5050			11.1	47.3F	7.4	62	--	--	--	--	0	46	--	--	--	--	--	71			EX
0920	5050			99	8.5C	7.4	90	--	--	--	--	.00	.75	--	--	--	--	--				S
08/20/75	5050			8.0	73.4F	7.2	260	--	--	--	--	0	159	--	--	--	--	--	185			S
1000	5050			97	23.0C	7.6	299	--	--	--	--	.00	2.61	--	--	--	--	--				
C3 3200.00 TULE RIVER SOUTH FORK OF MIDDLE FORK NEAR SPRINGVILLE																						
10/30/74	5050	2.50		10.3	40.8F	8.2	232	30	14	20	--	0	211	4.8	12	--	.20	--	200	148		X
0800	5050			94	8.2C	8.3	387	1.60	1.16	.47	.00	3.46	.10	.34			--	191	0	0.7		
								47	30	23			89	3	9							
04/09/75	5050			12.1	40.5F	8.2	180	--	--	--	--	3.0	184	--	--	--	--	--	194			X
0800	5050			102	4.7C	8.5	308	--	--	--	--	.10	3.02	--	--	--	--	--				S
08/20/75	5050			8.1	59.9F	8.2	215	--	--	--	--	0	217	--	--	--	--	--	147			X
0830	5050			88	15.5C	8.0	304	--	--	--	--	.00	3.56	--	--	--	--	--				S
C3 4149.30 TULE RIVER SOUTH FORK ABOVE CREW CREEK																						
10/30/74	5050			9.6	59.0F	7.7	146	17	3.8	13	--	0	86	5.8	6.8	--	.00	--	120	58		T
1340	5050			97	15.0C	7.6	182	.65	.31	.57	.00	1.41	.12	.19			--	89	0	0.7		
								49	18	33			82	7	11							
04/09/75	5050			10.8	52.2F	7.6	98	--	--	--	--	0	90	--	--	--	--	--	91			X
1200	5050			101	11.2C	7.9	138	--	--	--	--	.70	1.44	--	--	--	--	--				S
08/20/75	5050			8.1	80.6F	8.1	155	--	--	--	--	0	89	--	--	--	--	--	102			
1300	5050			103	27.0C	8.1	160	--	--	--	--	.00	1.46	--	--	--	--	--				S
C4 4950.10 POSO CREEK BELOW GLENNVILLE																						
12/16/74	5050			9.8	50.0F	7.8	160	23	4.5	15	--	0	109	8.9	6.2	2.0	.00	--	148	76		X
1620	5050			94	16.0C	8.1	217	1.15	.37	.65	.00	1.79	.19	.17	.03		--	113	0	0.7	T	
								53	17	30			62	9	8	1						
C5 1220.10 KERN RIVER AT MIRACLE HOT SPRINGS																						
10/02/74	5050	8.6			7.4		9.2	1.7	9.8	--	0	49	5.1	3.1	--	.10	--	60	30			
1000	5050				7.4	103	.46	.14	.43	--	.00	.80	.11	.79			--	53	0	0.8		
							45	14	42			.80	.11	.9								
03/05/75	5050			10.8	48.2F	7.4	100	12	2.7	14	--	0	65	9.4	5.4	--	.20	--	87	41		X
1044	5050			100	9.6C	7.9	143	.60	.22	.61	.00	1.07	.20	.15			--	76	0	1.0		
								42	15	43			75	14	11							
07/23/75	5050			8.2	69.8F	7.5	90	--	--	--	--	0	44	--	--	--	--	--	60			
1130	5050			90	21.0C	7.3	95	--	--	--	--	.00	.72	--	--	--	--	--				S
C5 1350.00 KERN RIVER BELOW ISABELLA DAM																						
12/17/74	5050	2.45		10.7	47.3F	7.3	85	10	2.2	10	--	0	56	8.9	2.9	.8	.10	--	84	34		X
0915	5050			94	8.5C	8.2	122	.50	.18	.44	.00	.92	.14	.18	.01		--	60	0	0.7		
								45	16	39			12	7	1							
03/05/75	5050	6.32		10.7	47.3F	7.4	88	11	2.6	13	--	0	50	8.2	5.8	--	.20	--	76	38		X
1030	5050			99	8.5C	7.7	134	.55	.21	.57	.00	.98	.17	.16			--	70	0	0.9		
								41	16	43			75	13	12							
05/27/75	5050	6.20		10.4	60.8F	7.3	90	9.1	2.1	10	--	0	49	4.3	4.7	--	.00	--	54	31		
1300	5050			114	16.0C	7.4	106	.45	.17	.44	.00	.80	.09	.13			--		0	0.8		S
								42	16	42			78	9	13							
09/03/75	5050			7.8	69.8F	7.3	100	8.8	2.2	9.3	--	0	49	4.0	4.0	--	.10	--	60	31		
0900	5050			94	21.0C	7.3	107	.44	.18	.40	.00	.92	.08	.11			--	52	0	0.7		
								43	18	19			81	8	11							

TABLE D-2 (Cont'd)

MINERAL ANALYSES OF SURFACE WATER																				
DATE TIME	SAMPLE LAB	G.M. Q DEPTH	00 SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				TUMBS SAR	REMARKS	
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM			TH NCH
CS 1500.00 KERN RIVER AT KENVILLE																				
10/02/74	5050			9.7	7.5	12	2.2	12	--	0	61	9.2	5.0	--	.10	--	91	39		
0745	5050				7.6	137	.60	.18	.52	.00	1.00	.19	.14	--	--	--	70	0	0.8	
							14	4.0			75	14	11							
12/17/74	5050			12.4	34.3F	7.9	96	13	1.6	15	--	0	66	9.9	.5	.20	--	95	39	
0815	5050			102	3.5C	7.9	146	.65	.13	.45	.00	1.08	.21	.14	.01	--	78	0	1.0	
								.45	9	4.5		75	15	10	1					
03/05/75	5050			10.3	45.5F	7.7	85	12	2.2	12	--	0	59	7.2	5.4	--	.20	--	86	
0615	5050			94	7.5C	7.7	129	.60	.18	.52	.00	.97	.15	.15	--	--	68	39	0.8	
								.46	14	4.0		76	15	12						
05/27/75	5050			10.0	59.0F	7.2	35	3.6	.5	3.3	--	0	17	.0	1.9	--	.00	--	44	
1345	5050			108	15.0C	7.2	38	.50	.04	.14	.00	.28	.00	.05	--	--	18	11	0.4	
								.50	11	3.9		35	15							
07/23/75	5050			8.6	66.2F	7.6	75	--	--	--	0	89	--	--	--	--	72			
0930	5050			101	19.0C	7.4	80	--	--	--	.00	.64	--	--	--	--				
09/03/75	5050			8.4	16.5F	7.4	100	12	2.7	13	--	0	69	7.7	5.9	--	.10	--	85	
0830	5050			46	8.6C	7.8	142	.60	.22	.57	.00	1.13	.16	.17	--	--	75	41	0.9	
								.63	16	4.1		77	11	12						
CS 1660.10 KERN RIVER ABOVE FAIRVIEW																				
10/02/74	5050			6.3	7.6		10	2.2	12	--	0	52	8.7	5.6	--	.10	--	89	34	
0630	5050				7.3	127	.50	.18	.52	.00	.85	.18	.10	--	--	--	64	0	0.9	
							.42	15	4.3			15								
03/05/75	5050			10.6	44.2F	7.3	85	10	1.9	13	--	0	53	8.7	5.3	--	.20	--	79	
0830	5050			98	8.6C	7.7	170	.50	.16	.57	.00	.87	.18	.15	--	--	65	33	1.0	
								.41	13	4.6		73	15	13						
07/23/75	5050			8.1	61.7F	7.4	65	--	--	--	0	33	--	--	--	--	57			
0900	5050			94	16.5C	7.5	74	--	--	--	.00	.54	--	--	--	--				
CS 3110.10 KERN RIVER SOUTH FORK NEAR WELDON																				
10/02/74	5050			8.4	8.1		.45	9.0	54	--	2.0	256	26	20	--	.50	--	285	149	
0915	5050				8.4	513	2.25	.74	2.35	--	.07	4.20	.54	.56	--	--	282	0	1.9	
							.42	14	4.4											
03/05/75	5050			8.8	53.6F	7.5	400	.46	11	52	--	0	262	27	20	--	.50	--	324	
0945	5050			89	12.0C	8.3	505	2.10	.90	2.26	.00	4.29	.56	.56	--	--	285	0	1.8	
							.42	16	4.1			79	10	10						
CS 1540.00 TENACHAPI CREEK NEAR TENACHAPI, CA																				
12/17/74	5050			32.32	12.2	41.9F	8.2	1200	166	58	145	--	0	361	434	188	1.3	.50	--	
1155	5050			96	5.5C	7.8	1820	8.28	4.77	7.18	.00	5.92	9.04	5.10	.02	--	1270	653		
								.41	24	15		29	45	26			1190	357	2.8	
CS 1575.00 CALIENTE CREEK ABOVE TENACHAPI, CA																				
12/17/74	5050			1.27	11.5	47.3F	8.3	650	47	34	79	--	0	270	166	39	3.6	.80	--	
1100	5050			98	8.5C	8.2	888	2.35	2.83	3.44	.00	4.43	3.46	1.10	.06	--	537	259		
								.27	33	4.0		49	38	12	1		503	38	2.1	
CS 2050.30 TEJON CREEK AT COMANCHE POINT OIL FIELD																				
12/17/74	5050			9.0	54.5F	7.9	1800	108	89	221	--	0	650	458	115	2.0	.80	--	1370	
1420	5050			86	12.5C	8.1	2020	5.39	7.34	9.61	.00	10.65	9.54	3.24	.03	--	1314	437		
								.24	33	4.3		.45	41	14			104	3.8		
CS 7020.00 SAN JACUIN RIVER NEAR VERNALIS																				
10/02/74	5001			6.9	66 F	7.6	345	--	--	--	0	78	--	47	--	--	207		148F	
1035	5050			74	19 C			--	--	--	.00	1.28	--	1.33	--	--	16.0			
10/16/74	5001			12.37	7.3	66 F	7.6	500	--	--	0	106	--	80	--	--	272		288F	
1030	5050			2700	78	19 C		--	--	--	.00	1.74	--	2.26	--	--	18.0			
10/17/74	5050			12.75	7.0	64 F	7.2	400	22	12	54	--	0	163	36	69	--	.10	--	
0900	5050			73	18 C	7.7	505	1.05	.99	2.31	.00	1.80	.75	1.95	--	--	245	108		
								.24	24	32		38	17	44			24	2.3		
11/06/74	5001			14.49	8.7	57 F	7.3	330	--	--	--	0	68	--	43	--	--	194		168F
1425	5050			4500	84	14 C		--	--	--	.00	1.11	--	1.21	--	--	14.2			
11/18/74	5001			13.57	8.9	59 F	7.3	440	--	--	--	0	76	--	56	--	--	239		108F
1320	5050			3670	88	15 C		--	--	--	.00	1.25	--	1.58	--	--	14.0			
11/21/74	5050			13.35	8.8	55.4F	7.3	310	21	10	53	--	0	88	44	61	2.7	--	248	
0900	5050			83	13.0C	7.7	458	1.05	.99	2.31	.00	1.44	.92	1.72	.04	--	236	25	2.3	
								.25	21	54		35	22	42	1					
12/17/74	5001			14.62	10.1	54 F	7.6	375	--	--	--	0	68	--	53	--	--	240		98F
1300	5050			4510	93	12 C		--	--	--	.00	1.11	--	1.49	--	--	12.2			
12/19/74	5050			12.67	8.7	50.0F	7.2	350	22	12	58	--	0	87	65	67	--	.40	--	
0900	5050			77	11.0C	8.1	525	1.10	1.06	2.52	.00	1.43	1.35	1.84	--	--	292	108		
								.24	23	54		31	29	40			268	37	2.4	
01/21/75	5001			12.56	9.4	50 F	7.5	645	--	--	--	0	99	--	106	--	--	376		88F
1800	5050			2750	87	16 C		--	--	--	.00	1.62	--	2.99	--	--	15.0			
02/03/75	5001			13.27	9.9	52 F		633	--	--	--	--	--	95	--	--	376		168F	
1450	5050			3325	96	11 C		--	--	--	--	--	--	2.68	--	--	11.8			

TABLE D-2 (Cont'd)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	G.M. DEPTH	00 SAT	TEMP	FIELD LABORATORY PH	MINERAL CONSTITUENTS IN EC	CA	MG	NA	K	CO3	MILLIGRAMS PER LITER PERCENT REACTANCE VALUE HCO3	SO4	CL	NO3	8 F	105 SUM	TM NCH	TURB SAF	WEN

HO 7020 **											CONTINUED									
03/18/75	5001	16.38	9.7	55	F	7.6	408	--	--	--	--	0	78	--	4.1	--	--	239	22AF	
1115	505n	6420	92	13	C							.00	1.28	--	1.38	--	14.0			5
04/01/75	5001	16.40	9.7	55	F	7.6	398	--	--	--	--	0	76	--	50	--	--	250	25AF	
1230	505n	6440	92	13	C							.00	1.25	--	1.41	--	14.0			5
04/18/75	5001	14.22	9.4	59	F	7.4	633	--	--	--	--	0	110	--	80	--	--	339	26AF	
1410	505n	3380	93	15	C							.00	1.40	--	2.26	--	17.0			5
05/01/75	5001	12.14	8.9	66	F	7.8	702	--	--	--	--	0	125	--	121	--	--	472	32AF	
1335	505n	2510	95	19	C							.00	2.05	--	3.41	--	16.0			5
05/15/75	5001	13.79	9.5	64	F	7.8	405	--	--	--	--	0	83	--	54	--	--	240	19AF	
1210	505n	3870	100	18	C							.00	1.36	--	1.52	--	16.0			5
06/01/75	5001	16.61	8.9	66	F	7.3	198	--	--	--	--	0	44	--	23	--	--	107	18AF	
1700	505n	6670	95	19	C							.00	.72	--	.65	--	10.0			5
06/17/75	5001	17.69	8.7	66	F	7.6	140	--	--	--	--	0	37	--	15	--	--	81	17AF	
1615	505n	7930	93	19	C							.00	.61	--	.42	--	10.0			5
06/25/75	505n		8.7	66	F	7.8	531	--	--	--	--	0	110	--	--	--	--	38AF		
1010	5001	2930	88	19	C							.00	1.00	--	--	--	16.2			5
07/01/75	5001	9.8	70	F	8.2	736	--	--	--	--	--	0	145	--	120	--	--	438	32AF	
1535	505n	109	21	C								.00	2.38	--	3.38	--	16.0			5
07/15/75	5001	8.7	72	F	8.2	778	--	--	--	--	--	0	151	--	59	--	--	414	50AF	
1510	505n	99	22	C								.00	2.47	--	1.66	--	17.0			5
07/23/75	505n	7.4	77	F	7.4	865	--	--	--	--	--	0	132	--	--	--	--	54AF		
1035	5001	89	25	C	7.9							.00	2.16	--	--	--	18.6			5
08/12/75	5001	9.4	76.0F	7.2	733	--	--	--	--	--	--	--	--	--	106	--	--	396	48AF	
1615	505n	115	26.0C									--	--	--	2.99	--	18.0			5
08/26/75	5001	11.14	7.3	77	F	7.7	685	--	--	--	--	--	--	--	104	--	--	420	31AF	
1200	505n	1790	88	25	C							--	--	--	2.93	--	21.0			5
09/11/75	5001	12.16	7.9	72	F	7.8	471	--	--	--	--	0	82	--	71	--	--	255	19AF	
1410	505n	2530	90	22	C							.00	1.34	--	2.00	--	16.0			5
09/25/75	5001	12.81	7.4	73	F	7.8	379	--	--	--	--	0	75	--	49	--	--	218	19AF	
1330	505n	3850	86	23	C							.00	1.23	--	1.38	--	14.0			5

TABLE D-3
MINOR ELEMENT ANALYSES OF SURFACE WATER

Abbreviations and Codes used in this table are:

Abbreviations

D	Dissolved Concentration
T	Total Concentration

Sampler (SAMP) and Laboratory (LAB) Codes

5001	U. S. Bureau of Reclamation
5050	Department of Water Resources

TABLE D-3
MINOR ELEMENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	DEPTH FT	WIND DIR	TEMP °F	WIND SPEED MPH	ARSENIC	CONSTITUENTS IN MILLIGRAMS PER LITER				LEAD	MERCURY	SILVER	REMARKS
							BARIIUM	CHROM. (ALL)	CHROM. (HEX)	COPPER	MANGANESE	SELENIUM	ZINC	
SALT SLough NE STEVENS														
08/20/74 5:50	1100	5:50		23.0	7.2	0.01	T	0.00	T	0.02	T	0.0002	T	0.03
CANAL CREEK AT DANJALE ROAD														
04/14/75 5:50	1030	5:50	150	12.0	6.0	0.00	T	0.00	T	0.00	T	0.0000	T	--
SAN JOAQUIN RIVER NEAR VERNALIS														
12/19/74 5:50	0900	5:50	358	10.0	7.2	--	--	0.00	D	0.01	D	0.0000	T	0.01
01/21/75 5:00	1000	5:00	3	10.0	7.5	0.00	T	0.00	T	0.01	T	0.0000	T	0.01
01/21/75 5:00	1000	5:00	3	10.0	7.5	0.00	D	0.00	D	0.00	D	0.00	D	0.01
05/01/75 5:00	1330	5:00	3	702	19.0	0.00	D	0.00	D	0.02	D	0.00	D	0.05
05/01/75 5:00	1330	5:00	3	702	19.0	0.00	T	0.00	T	0.04	T	0.0001	T	0.05
09/11/75 5:00	1410	5:00	3	471	22.0	0.00	D	0.00	D	0.03	D	0.00	D	0.00
09/11/75 5:00	1410	5:00	3	471	22.0	0.00	T	0.00	T	0.01	T	0.00	T	0.01
SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE														
12/19/74 5:50	1240	5:50	1450	10.0	7.2	--	--	0.01	T	1.0	T	0.0000	T	0.0
05/21/75 5:50	1315	5:50	400	20.0	8.2	0.00	T	0.00	T	0.01	T	0.0001	T	0.01
08/20/75 5:50	1130	5:50	1000	24.0	7.2	0.00	T	0.00	T	0.02	T	0.0003	T	0.04
SAN JOAQUIN RIVER AT FRIANT DAM														
12/10/74 5:50	1400	5:50	40	9.0	6.8	--	--	0.00	T	0.00	T	--	--	--
STANISLAUS RIVER BELOW TULLOCK DAM														
12/20/74 5:50	0930	5:50	45	10.0	7.2	--	--	0.00	T	0.01	T	0.0000	T	0.00
MERCED RIVER BELOW FACHEQUEL DAM														
12/20/74 5:50	1330	5:50	45	12.0	6.8	--	--	0.00	T	0.02	T	0.0000	T	0.00
HURTS CREEK AT MERCED MARIPOSA COUNTY LINE														
04/14/74 5:50	0915	5:50	265	12.0	8.0	--	--	0.00	T	--	0.00	T	0.0000	T
MARIPOSA CREEK ABOVE MARIPOSA RESERVOIR														
04/14/75 5:50	1200	5:50	135	12.0	8.2	--	--	0.00	T	0.01	T	0.0000	T	--
SAN JOAQUIN RIVER BELOW MERCKHOFF NEAR PRATHER														
12/10/74 5:50	1100	5:50	25	9.0	7.1	--	--	--	--	--	--	--	--	0.01
KAWeah RIVER BELOW TERMINUS DAM														
12/10/74 5:50	1120	5:50	120	11.0	7.2	--	--	0.00	T	0.00	T	0.0000	T	0.01
TULE RIVER BELOW SUCCESS DAM														
12/14/74 5:50	1400	5:50	345	15.0	7.2	--	--	0.00	T	1.00	T	0.0000	T	0.00
FERN RIVER NEAR BAKERSFIELD														
12/17/74 5:50	1010	5:50	105	9.0	8.3	--	--	0.00	T	0.00	T	0.0000	T	0.01
KINGS RIVER BELOW PINE FLAT RESERVOIR														
12/10/74 5:50	0450	5:50	25	11.0	7.2	--	--	0.00	T	1.00	T	0.0000	T	0.00

TABLE D-4

MISCELLANEOUS CONSTITUENTS OF SURFACE WATER

Abbreviations and Codes used in this table are:

Abbreviations

BOD	Biochemical Oxygen Demand (B = 5 days at 20° C)
COD	Chemical Oxygen Demand
SUS S	Suspended Solids 5 = 105° C 8 = 180° C
V SUS S	Volatile Suspended Solids
TOC	Total Organic Carbon
TURB	Turbidity in Turbidity Units

Sampler (SAMP) and Laboratory (LAB) Codes

5001	U. S. Bureau of Reclamation
5050	Department of Water Resources

TABLE D-4
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	OD G+M	F-PH L-PH	DISCH MBAS	DEPTH TMR	T+L CHDR	SET 5		800 SUS 5	COD V SUS 5	CYANIDE PHENOLS	TOC ODC	10010E T ODOE	BROMIDE SULFITE	Y D SULF	CC CA EXT
								0+0 COLOR	ML/L MO/L								
R0 0109.30 WESTLEY WASTEWAY																	
06/25/75 0945	5050 5001	18	C	10.5	--	--	--	--	--	552	8	62	--	--	--	--	--
06/25/75 0945	5050 5050	18	C	10.5	8.0	--	--	--	--	4.8	R	37	--	--	--	--	--
07/23/75 0820	5050 5050	21	C	11.3	8.5	--	1	--	--	8.6	B	34	--	--	--	--	--
R0 0349.10 NEWMAN WASTEWAY																	
06/24/75 1030	5050 5050	19	C	5.4	7.9	--	3	--	--	9.1	R	31	--	--	--	--	--
06/24/75 1030	5050 5001	19	C	5.4	7.9	--	--	--	--	88	B	18	--	--	--	--	--
07/22/75 0730	5050 5050	21	C	2.4	7.3	--	3	--	--	6.7	R	31	--	--	--	--	--
09/30/75 1005	5050 5050	20	C	1.3	7.6	--	3	--	--	6.4	R	26	--	--	--	--	--
R0 0470.00 SALT SLOUGH NR STEVENSON																	
04/03/75 0900	5050 5050	13.0C	8.3	7.7	--	--	--	--	--	76	S	7	--	--	--	--	--
05/21/75 1230	5050 5050	17.0C		7.4	--	--	--	--	--	144	S	48	--	--	--	--	--
06/24/75 0945	5050 5050	20	C	6.4	8.1	--	3	--	--	6.2	R	35	--	--	--	--	--
06/24/75 0945	5050 5001	20	C	6.4	8.1	--	--	--	--	126	R	21	--	--	--	--	--
07/22/75 0950	5050 5050	24	C	5.6	7.8	--	3	--	--	6.4	R	35	--	--	--	--	--
08/26/75 1100	5050 5050	23	C	7.3	--	--	--	--	--	6.7	R	74	--	20	--	--	--
08/27/75 1100	5050 5050	22.0C	5.9	7.4	--	--	--	--	--	181	S	--	--	--	--	--	--
09/30/75 1000	5050 5050	20	C	6.4	8.0	--	3	3	--	3.2	R	30	--	--	--	--	--
09/30/75 1001	5050 5001	20.0C	6.6	8.0	--	3	--	--	--	125	S	24	--	--	--	--	--
R0 0770.00 DELTA MENDOTA CANAL TO MENDOTA POOL																	
04/08/75 1030	5050 5050	13.0C	10.3	7.5	--	--	--	--	--	44	S	5	--	--	--	--	--
09/11/75 1100	5050 5050	23.0C	7.4	7.6	--	--	--	--	--	192	S	--	--	--	--	--	--
R0 0936.30 BURKHARD DRAIN																	
06/25/75 5001	5050 5001	--	--	--	--	--	--	--	--	337	R	35	--	--	--	--	--
06/25/75 0950	5050 5050	17	C	8.4	8.0	--	3	--	--	4.1	R	31	--	--	--	--	--
07/23/75 0930	5050 5050	22	C	7.9	8.2	--	3	--	--	14	B	19	--	--	--	--	--
R0 0955.30 TILE DRAIN NEAR PATTERSON																	
07/22/75 1255	5050 5050	20	C	1.7	7.3	--	1	--	--	0.1	R	8	--	--	--	--	--
R0 3115.00 STANISLAUS RIVER AT KOETITZ RANCH																	
05/28/75 1600	5050 5050	17.0C	9.5	7.3	--	--	--	--	--	20	S	--	--	--	--	--	--
06/25/75 1205	5050 5001	19	C	7.5	--	--	--	--	--	1.7	R	--	--	--	--	--	--
07/23/75 1110	5050 5050	24	C	8.1	7.5	--	3	--	--	1.4	R	--	--	--	--	--	--
08/27/75 1500	5050 5050	21.0C	8.0	7.5	--	--	--	--	--	38	S	--	--	--	--	--	--
R0 3185.00 STANISLAUS RIVER AT KNIGHTS FERRY																	
06/18/75 1600	5050 5050	17.0C	9.9	8.1	--	--	--	--	--	1.1	R	3	--	--	--	--	--
09/17/75 1700	5050 5050	21.0C	8.6	7.8	--	--	--	--	--	1.6	B	2	--	--	--	--	--
R0 4105.00 TUOLUMNE RIVER AT TUOLUMNE CITY																	
05/28/75 1400	5050 5050	24.0C	7.5	7.3	--	--	--	--	--	42	S	--	--	--	--	--	--
06/25/75 1125	5050 5001	20	C	9.1	--	--	--	--	--	3.4	R	12	--	--	--	--	--
07/23/75 1005	5050 5050	24	C	7.1	7.5	--	1	--	--	2.0	R	--	--	--	--	--	--
08/27/75 1330	5050 5050	24.0C	8.2	7.6	--	--	--	--	--	52	S	--	--	--	--	--	--

TABLE D-4 (Cont'd)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.M.	F-PH L-PH	DISCH MGAS	DEPTH TURB	T-L CHLOR	SET 5 O-D COLOR	ML/L MG/L	800 SUS 5	COO V SUS 5	CYANIDE PHENOLS	TDC DOC	100DOE T DOOR	APOWIDE SULFITE	T SULF D SULF	CC EXT CA EXT
80 4175.00 TULUMNE RIVER AT LA GRANGE BRIDGE																	
06/04/75 1300	5050 5050				--	--	--	--	--	1.4 P	2	--	--	--	--	--	--
09/24/75 1400	5050 5050	13.3C 32	10.5	6.8	--	--	--	--	--	1.0 B	2	--	--	--	--	--	--
80 4921.30 TURLOCK SEWAGE TREATMENT PLANT																	
06/24/75 1255	5050 5001	21 C 685	3.4		--	--	--	--	--	61.0 R 91 B	100 54	--	--	--	--	--	--
07/22/75 1145	5050 5050	24 C 621	5.8	8.1	--	1	--	--	--	71 B	135	--	--	--	--	--	--
09/30/75 1345	5050 5050	23 C 740	11.6	8.8	--	1	--	--	--	55 B	225	--	--	--	--	--	--
80 4942.30 MOORESTOWN SEWAGE TREATMENT PLANT																	
06/24/75 1405	5050 5001	22 C 601	3.0		--	--	--	--	--	39.0 B 82 B	190 68	--	--	--	--	--	--
07/22/75 1300	5050 5050	24 C 1530	9.9	9.2	--	3	--	--	--	48 B	135	--	--	--	--	--	--
80 4974.30 TURLOCK IRRIGATION DISTRICT LATERAL DRAIN NO 2																	
06/25/75 1035	5050 5050	17 C 230	12.9	7.8	--	3	--	--	--	2.2 R	4	--	--	--	--	--	--
06/25/75 1035	5050 5001	17 C 369	12.9		--	--	--	--	--	71 B	13	--	--	--	--	--	--
07/23/75 0940	5050 5050	23 C 230	8.8	8.0	--	3	--	--	--	1.4 B	1	--	--	--	--	--	--
80 4975.30 TURLOCK IRRIGATION DISTRICT LATERAL DRAIN NO 5																	
06/24/75 1500	5050 5001	19 C 501	9.7		--	--	--	--	--	38 B	18	--	--	--	--	--	--
06/24/75 1500	5050 5050	19 C 369	9.7		--	2	--	--	--	6.2 R	9	--	--	--	--	--	--
07/22/75 1405	5050 5050	24 C 432	8.2	7.7	--	2	--	--	--	5.7 R	23	--	--	--	--	--	--
09/30/75 1545	5050 5050	21 C 522	7.3	8.0	--	2	--	--	--	8.1 R	34	--	--	--	--	--	--
80 4976.30 TURLOCK IRRIGATION DISTRICT LATERAL DRAIN NO 6 AND 7																	
06/24/75 1155	5050 5050	19.5C 317	7.5	7.8	--	1	--	--	--	4.0 B	21	--	--	--	--	--	--
06/24/75 1155	5050 5001	19.5C 317	7.5	7.8	--	--	--	--	--	7 B	5	--	--	--	--	--	--
07/22/75 1100	5050 5050	23 C 375	6.8	7.5	--	1	--	--	--	2.7 R	12	--	--	--	--	--	--
09/30/75 1255	5050 5050	21 C 401	7.9	7.8	--	1	--	--	--	3.1 B	16	--	--	--	--	--	--
80 5131.00 MERCED RIVER AT MILLIKEN BRIDGE																	
05/29/75 1200	5050 5050	21.0C 70	8.1	8.1	--	--	--	--	--	17 B	5	--	--	--	--	--	--
06/24/75 0900	5050 5001	18 C 78	8.1	6.9	--	--	--	--	--	1.4 B	--	--	--	--	--	--	--
07/22/75 0910	5050 5050	24 C 150	7.2	7.2	--	3	--	--	--	0.8 B	--	--	--	--	--	--	--
08/27/75 1200	5050 5050	23.0C 115	8.1	7.2	--	--	--	--	--	22 B	5	--	--	--	--	--	--
09/30/75 0915	5050 5050	17 C 50	8.6	7.2	--	3	--	--	--	1.1 B	--	--	--	--	--	--	--
09/30/75 0916	5050 5001	17.0C 50	8.6	7.2	--	3	--	--	--	15 B	10	--	--	--	--	--	--
80 5166.50 CANAL CREEK AT DAKDALE ROAD																	
02/05/75 1730	5050 5050	16.5C 45	10.2	7.3	--	15 E	--	--	--	15 B	29	--	--	--	--	--	--
03/12/75 1530	5050 5050	15.2C 55	10.3	7.2	--	25.0	--	--	--	6.2 B	10	--	--	--	--	--	--
04/16/75 1630	5050 5050	17.4C 50	10.8	7.9	--	150	--	--	--	1.0 B	6	--	--	--	--	--	--
80 6369.50 DUTCHMAN CREEK AT BAXTER ROAD																	
02/05/75 0850	5050 5050	9 C 90	8.5	7.2	--	--	--	--	--	4.8 B	16	--	--	--	--	--	--
03/12/75 0720	5050 5050	54.0F 5050	8.1	7.9	--	2.6	--	--	--	3.2 B	2	--	--	--	--	--	--
04/16/75 0755	5050 5050	12.0C 212	9.0	8.3	--	--	--	--	--	2.4 B	4	--	--	--	--	--	--

TABLE D-4 (Cont'd)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	OD 3,4	F-PH L-PH	DISCH MGAS	DEPTH TURB	T-L CHLOR	O+O COLOR	SET 5	BOD 5US S	COD V 5US S	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
									ML/L MG/L								
B0 6399.50										OFADMAN CREEK AT BAXTER ROAD							
02/05/75	5050	9 C	10.1	7.2	--	--	--	--	--	4.4 R	--	--	--	--	--	--	--
0705	5050	70	4.50	--	--	--	--	--	53 S	11	--	--	--	--	--	--	--
03/12/75	5050	11.6 C	9.1	7.5	--	11.8	--	--	--	2.0 B	--	--	--	--	--	--	--
0800	5050	126	--	--	--	--	--	--	4 S	2	--	--	--	--	--	--	--
04/16/75	5050	17.5 C	9.5	7.9	--	--	--	--	--	2.6 R	--	--	--	--	--	--	--
0414	5050	172	3.08	--	--	--	--	--	6 S	4	--	--	--	--	--	--	--
H6 7020.00										SAN JOAQUIN RIVER NEAR VERNALIS							
B0 7040.00										SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE							
05/28/75	5050	24.0 C	9.0	7.9	--	--	--	--	--	--	--	--	--	--	--	--	--
1330	5050	500	17.53	--	--	--	--	--	209 S	5	--	--	--	--	--	--	--
06/25/75	5050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0450	5001	--	--	--	--	--	--	--	90 B	18	--	--	--	--	--	--	--
06/25/75	5050	19 C	7.3	7.9	--	3	--	--	--	14 F	--	--	--	--	--	--	--
0450	5050	586	16.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/23/75	5050	24 C	6.1	7.9	--	3	--	--	--	12 F	--	--	--	--	--	--	--
0425	5050	931	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/27/75	5050	24.0 C	7.1	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--
1400	5050	800	15.01	--	--	--	--	--	158 S	5	--	--	--	--	--	--	--
B0 7080.00										SAN JOAQUIN RIVER NEAR GRAYSON							
04/03/75	5050	19.0 C	9.4	7.7	--	--	--	--	--	52 S	7	--	--	--	--	--	--
1250	5050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/25/75	5050	19 C	8.0	--	--	--	--	--	--	143 R	21	--	--	--	--	--	--
0845	5001	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/25/75	5050	19 C	8.0	7.9	--	3	--	--	--	15 F	--	--	--	--	--	--	--
0445	5050	526	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/23/75	5050	24 C	6.8	7.7	--	3	--	--	--	15 F	--	--	--	--	--	--	--
0905	5050	982	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/27/75	5050	24.0 C	6.7	7.6	--	--	--	--	--	151 S	5	--	--	--	--	--	--
1300	5050	800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B0 7200.00										SAN JOAQUIN RIVER AT PATTERSON BRIDGE							
06/24/75	5050	20 C	8.6	7.9	--	--	--	--	--	--	--	--	--	--	--	--	--
1230	5001	494	--	--	--	--	--	--	73 B	13	--	--	--	--	--	--	--
06/24/75	5050	20 C	8.6	7.9	--	3	--	--	--	9.6 F	--	--	--	--	--	--	--
1230	5050	494	34.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/22/75	5050	20 C	8.9	8.1	--	3	--	--	--	13 F	--	--	--	--	--	--	--
1220	5050	756	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	19 C	8.1	7.8	--	3	--	--	--	2.8 R	--	--	--	--	--	--	--
1315	5050	386	55.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	19 C	8.1	7.8	--	3	--	--	--	7.6 F	--	--	--	--	--	--	--
1314	5050	346	55.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	19 C	8.1	7.8	--	3	--	--	--	8.4 F	--	--	--	--	--	--	--
1317	5050	386	55.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	19.0 C	8.1	7.8	--	3	--	--	--	--	--	--	--	--	--	--	--
1314	5001	386	55.63	--	--	--	--	--	49 S	15	--	--	--	--	--	--	--
H0 7250.00										SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE							
06/24/75	5050	20 C	8.1	7.9	--	--	--	--	--	54 B	15	--	--	--	--	--	--
1140	5001	464	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/24/75	5050	20 C	8.1	7.9	--	3	--	--	--	9.1 F	--	--	--	--	--	--	--
1140	5050	464	41.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	20 C	8.0	7.7	--	3	--	--	--	2.5 B	--	--	--	--	--	--	--
1230	5050	342	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	20 C	8.0	7.7	--	3	--	--	--	7.0 F	--	--	--	--	--	--	--
1231	5050	342	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	20 C	8.0	7.7	--	3	--	--	--	7.7 F	--	--	--	--	--	--	--
1230	5050	342	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	20.0 C	8.0	7.7	--	3	--	--	--	42 S	13	--	--	--	--	--	--
1233	5001	342	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
H0 7375.00										SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE							
04/03/75	5050	19.0 C	8.8	7.5	--	--	--	--	--	63 S	12	--	--	--	--	--	--
0830	5050	1062	57.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/21/75	5050	20.0 C	8.0	--	--	--	--	--	--	74 S	20	--	--	--	--	--	--
1315	5050	900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/28/75	5050	23.0 C	10.3	8.2	--	--	--	--	--	95 S	5	--	--	--	--	--	--
1100	5050	1600	56.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/24/75	5050	21 C	7.6	8.0	--	2	--	--	--	18 F	--	--	--	--	--	--	--
1035	5050	1145	55.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/24/75	5050	21 C	7.6	8.0	--	--	--	--	--	105 R	19	--	--	--	--	--	--
1035	5001	1145	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/22/75	5050	21 C	7.3	7.9	--	2	--	--	--	14 F	--	--	--	--	--	--	--
1035	5050	813	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/20/75	5050	24 C	--	7.4	--	--	--	--	--	7.0 B	41	--	24	--	--	--	--
1130	5050	1000	--	--	--	--	--	--	--	152 S	5	--	--	--	--	--	--
08/27/75	5050	23.0 C	7.4	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--
1000	5050	900	57.11	--	--	--	--	--	--	126 S	5	--	--	--	--	--	--

TABLE D-4 (Cont'd)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO	F-PH 0+PH L+PH	DISCH MGAS	DEPTH TURB	TAL CHLOR	SET 5 -		800 SUS 5	COD V SUS 5	CYANIDE PHENOLS	TOC DOC	100IOE T DOOR	BROMIOE SULFITE	T SULF O SULF	CC EXT CA EAT
								OAB ML/L	800 SUS 5								
80 7375.00 SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE CONTINUED																	
09/30/75 1110	5050 5050	21 74.4	C 56.55	8.0	--	--	--	--	4.1 B 105 5	-- 19	--	--	--	--	--	--	--
09/30/75 1111	5050 5050	21 74.4	C 56.55	8.0	--	1	--	--	12 F --	--	--	--	--	--	--	--	--
09/30/75 1112	5050 5050	21 74.4	C 56.55	8.0	--	1	--	--	14 F --	--	--	--	--	--	--	--	--
09/30/75 1113	5050 5001	21.0C 74.4	7.8 56.55	8.0	--	1	--	--	-- 69 5	-- 16	--	--	--	--	--	--	--
90 7710.00 SAN JOAQUIN RIVER NEAR MENDOTA																	
04/08/75 1000	5050 5050	13.5C 320	10.9 3.08	7.6	--	--	--	--	-- 42 5	-- 5	--	--	--	--	--	--	--
09/11/75 1000	5050 5050	23.0C 330	7.3 3.46	7.6	--	--	--	--	-- 55 5	--	--	--	--	--	--	--	--
80 7885.00 SAN JOAQUIN RIVER AT FRIJANT DAM																	
04/02/75 0720	5050 5050	10.0C 52	10.0 2.07	7.0	--	--	--	--	7 5 2	--	--	--	--	--	--	--	--
05/27/75 1000	5050 5050	53.0F 100	12.0 2.47	7.5	--	--	--	--	8 5 --	--	--	--	--	--	--	--	--
09/16/75 0700	5050 5050	11.5C 30	6.4 2.16	6.8	--	--	--	--	13 5 --	--	--	--	--	--	--	--	--
90 7886.50 SAN JOAQUIN RIVER AT NORTH FORK ROAD BRIDGE																	
10/08/74 0615	5050 5050	9.5C 30	11.0 --	6.8	--	--	--	--	0.8 B 6 5	-- 4	--	--	--	--	--	--	--
07/09/75 0700	5050 5050	11.5C 30	9.3 --	6.8	--	--	--	--	2.0 B --	61 --	--	--	--	--	--	--	--
83 1400.50 STANISLAUS RIVER AT PARROTTS FERRY BRIDGE																	
06/18/75 1130	5050 5050	13.0C 25	10.0 --	8.3	--	--	--	--	0.4 B --	2 --	--	--	--	--	--	--	--
09/17/75 1230	5050 5050	16.5C 35	9.4 --	7.3	--	--	--	--	0.9 B --	2 --	--	--	--	--	--	--	--
83 2110.10 STANISLAUS RIVER NF AT CALAVERAS BIG TREES STATE PAR																	
06/18/75 1330	5050 5050	12.0C 18	9.9 --	6.8	--	--	--	--	1.0 B --	4 --	--	--	--	--	--	--	--
09/17/75 1400	5050 5050	14.0C 28	8.2 --	7.2	--	--	--	--	1.0 B --	2 --	--	--	--	--	--	--	--
83 3255.00 STANISLAUS RIVER MIDDLE FORK AT BEARDSLEY																	
06/18/75 0900	5050 5050	9.8C 25	9.9 --	8.3	--	--	--	--	0.8 B --	1 --	--	--	--	--	--	--	--
09/17/75 0930	5050 5050	16.0C 35	8.6 --	7.2	--	--	--	--	1.4 B --	2 --	--	--	--	--	--	--	--
83 3480.10 STANISLAUS RIVER MIDDLE FORK AT DARDANELLE																	
06/18/75 0630	5050 5050	4.9C 20	9.9 --	8.1	--	--	--	--	0.4 B --	1 --	--	--	--	--	--	--	--
09/17/75 0800	5050 5050	14.5C 20	8.3 --	7.0	--	--	--	--	0.6 B --	0 --	--	--	--	--	--	--	--
84 1231.50 SULLIVAN CREEK AT JACKSONVILLE ROAD																	
04/23/75 1030	5050 5050	12.0C 60	11.5 --	8.3	--	72.3	--	--	1.1 B 13 5	-- --	--	--	--	--	--	--	--
84 1232.50 WOODS CREEK AT SLATE CREEK																	
04/23/75 1000	5050 5050	13.0C 220	13.5 --	8.4	--	15.4	--	--	1.7 B 9 5	-- --	--	--	--	--	--	--	--
84 1235.50 WOODS CREEK BELOW JAMESTOWN STP																	
04/23/75 0830	5050 5050	11.3C 220	10.5 --	8.2	--	12.0	--	--	2.2 B 17 5	-- --	--	--	--	--	--	--	--
84 1238.50 WOODS CREEK BELOW SONORA STP																	
04/23/75 0800	5050 5050	11.0C 247	9.7 --	8.1	--	6.9	--	--	6.7 B 10 5	-- --	--	--	--	--	--	--	--
84 1239.50 WOODS CREEK AT COUNTY FAIRGROUNDS																	
04/23/75 0730	5050 5050	11.0C 260	9.7 --	8.2	--	3.7	--	--	1.1 B 35 5	-- --	--	--	--	--	--	--	--
84 1241.50 WOODS CREEK AT JACK PABE ROAD ABOVE SONORA																	
04/23/75 0615	2163 5050	10.9C 212	9.3 --	6.0	--	3.2	--	--	1.0 B 23 5	-- --	--	--	--	--	--	--	--
84 1250.10 TUOLUMNE RIVER AT WARDS FERRY BRIDGE																	
06/04/75 1100	5050 5050	11.7C 12	11.0 --	6.8	--	--	--	--	0.9 B --	4 --	--	--	--	--	--	--	--
09/24/75 1230	5050 5050	27.0C 50	8.1 --	7.4	--	--	--	--	2.9 B --	4 --	--	--	--	--	--	--	--

TABLE D-4 (Cont'd)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO O ₂ M	F-PH L-PH	SET 5					R0D SUS S	COD V SUS S	CYANIDE PHENOLS	TOD DOC	IODIDE T ODO	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
					DISCH MGAS	DEPTH TURB	T+L CHLOR	O+O COLOR	ML/L MG/L								
B+ 1080.00				TUOLUMNE RIVER ABOVE EARLY INTAKE													
06/04/75 0900	5050 5050	9.8C 10	10.6	6.8	--	--	--	--	--	0.7 B --	3 --	--	--	--	--	--	--
09/24/75 0930	5050 5050	13.8C 9	9.6	6.8	--	--	--	--	--	0.5 R --	2 --	--	--	--	--	--	--
B+ 1850.10				TUOLUMNE RIVER AT TUOLUMNE MEADOWS													
06/04/75 0830	5050 5050	2.1C 4	9.5	6.8	--	--	--	--	--	0.7 B --	2 --	--	--	--	--	--	--
09/24/75 0700	5050 5050	8.3C 18	7.9	7.0	--	--	--	--	--	8.0 B --	1 --	--	--	--	--	--	--
B5 1320.00				MERCED RIVER AT BAGBY													
11/13/74 1530	5050 5050	21.5C 63	11.2	7.1	--	--	--	--	--	0.8 B 1 5	1 --	--	--	--	--	--	--
B5 1410.10				MERCED RIVER ABOVE BRICEBURG													
11/13/74 1330	5050 5050	10.0C 40	12.0	7.3	--	--	--	--	--	0.8 B 1 5	1 --	--	--	--	--	--	--
B5 1517.10				MERCED RIVER BELOW EL PORTAL													
11/13/74 1130	5050 5050	6.6C 37	11.1	7.2	--	--	--	--	--	1.1 B 2 5	2 --	--	--	--	--	--	--
B5 1519.50				MERCED RIVER AT JUNCTION HIGH OAK FLAT RD AND HWY 140													
11/13/74 0930	5050 5050	7.2C 30	8.1	6.8	--	--	--	--	--	0.4 B 4 5	2 --	--	--	--	--	--	--
B5 1700.00				MERCED RIVER AT HAPPY ISLES BRIDGE NEAR YOSEMITE													
11/13/74 0715	5050 5050	6.8C 23 1.37	11.3	7.0	--	--	--	--	--	0.6 B 3 5	3 --	--	--	--	--	--	--
B5 5152.10				REAR CREEK ABOVE BEAR CREEK RESERVOIR													
02/05/75 1445	5050 5050	9.5C 75	10.8	7.5	300 E	--	--	--	--	1.2 R 15 5	6 --	--	--	--	--	--	--
03/12/75 1100	5050 5050	11.5C 132	10.6	6.0	65.1	--	--	--	--	1.0 R 1 5	0 --	--	--	--	--	--	--
04/16/75 1430	5050 5050	14.5C 145	9.5	7.9	15	--	--	--	--	1.1 R 9 5	4 --	--	--	--	--	--	--
B5 6152.50				RURNS CREEK AT MERCED MARIPOSA COUNTY LINE													
02/05/75 1425	5050 5050	11.5C 105	10.2	7.5	50 E	--	--	--	--	1.3 B 15 5	6 --	--	--	--	--	--	--
03/12/75 0930	5050 5050	10.7C 156	10.5	7.4	35.1	--	--	--	--	1.2 R 3 5	2 --	--	--	--	--	--	--
04/16/75 0915	5050 5050	12.0C 205	10.3	8.0	8.0	--	--	--	--	1.8 R 9 5	4 --	--	--	--	--	--	--
B6 2020.10				OWENS CREEK ABOVE OWENS RESERVOIR													
02/05/75 1250	5050 5050	10.0C 115	10.8	7.8	75 E	--	--	--	--	2.2 R 23 5	8 --	--	--	--	--	--	--
03/12/75 0820	5050 5050	11 C 210	11.0	6.2	12.2	--	--	--	--	1.4 R 6 5	2 --	--	--	--	--	--	--
04/16/75 1245	5050 5050	14.0C 249	8.4	11.3	--	--	--	--	--	2.1 R 13 5	6 --	--	--	--	--	--	--
B6 2204.10				MARIPOSA CREEK ABOVE MARIPOSA RESERVOIR													
02/05/75 1040	5050 5050	8.5C 60	11.1	7.4	200 E	--	--	--	--	1.4 R 27 5	7 --	--	--	--	--	--	--
03/12/75 1100	5050 5050	12.2C 121	11.3	8.2	121	--	--	--	--	1.2 B 2 5	1 --	--	--	--	--	--	--
04/16/75 1200	5050 5050	12.0C 135	10.9	8.2	--	--	--	--	--	1.3 R 23 5	6 --	--	--	--	--	--	--
B7 1340.00				SAN JOAQUIN RIVER ABOVE WILLOW CREEK NEAR AUHERRY													
10/09/74 0830	5050 5050	9.7C 22	8.6	6.8	--	--	--	--	--	0.7 B 3 5	3 --	--	--	--	--	--	--
07/09/75 0930	5050 5050	--	--	6.8	--	--	--	--	--	0.9 R --	4 --	--	--	--	--	--	--
B7 1532.50				SAN JOAQUIN RIVER BELOW SHAKEFLAT CREEK													
10/09/74 1245	5050 5050	14.5C 50	9.7	7.3	--	--	--	--	--	0.7 B 0 5	0 --	--	--	--	--	--	--
07/09/75 1230	5050 5050	13.0C 15	10.2	8.1	--	--	--	--	--	1.2 R --	3 --	--	--	--	--	--	--
B7 4250.50				SAN JOAQUIN RIVER SOUTH FORK AT MONO HOT SPRINGS													
10/09/74 1200	5050 5050	14.5C 20	9.4	6.9	--	--	--	--	--	0.6 B 0 5	0 --	--	--	--	--	--	--
07/09/75 0930	5050 5050	17.0C 25	7.8	6.8	--	--	--	--	--	0.8 R --	1 --	--	--	--	--	--	--

TABLE D-4 (Cont'd)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO O.M.	F-PH L-PH	DISCH MGAS	DEPTH TURB	T-L CHLDR	0-6 ML/L	SET S COLOR	ROD SUS 5	ODD V SUS 5	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
C0 2550.30 KANEAH RIVER AT LEMONCOVE																	
10/16/74	5050	21.1C	9.8	7.5	--	--	--	--	1.1 R	5	--	--	--	--	--	--	--
1430	5050	120	--	--	--	--	--	--	8 5	--	--	--	--	--	--	--	--
04/23/75	5050	57.0F	11.2	--	--	--	--	--	1.4 R	3	--	--	--	--	--	--	--
1400	5050	112	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/08/75	5050	23.5C	8.6	7.1	--	--	--	--	0.6 R	1	--	--	--	--	--	--	--
1400	5050	50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C0 3195.00 TULE RIVER AT NORTH BRIDGE NEAR PORTERVILLE																	
10/30/74	5050	18.0C	7.9	7.7	--	--	--	--	2.0 C	--	--	--	--	--	--	--	--
1500	5050	232	--	--	--	--	--	--	30 5	7	--	--	--	--	--	--	--
04/09/75	5050	13.5C	11.8	7.8	--	--	--	--	2.2 R	5	--	--	--	--	--	--	--
1325	5050	180	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/20/75	5050	24.0C	8.0	7.0	--	--	--	--	2.5 R	5	--	--	--	--	--	--	--
1430	5050	145	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C0 5140.10 KERN RIVER AT HART PARK																	
10/02/74	5050	9.8	7.7	--	--	--	--	--	0.6 R	--	--	--	--	--	--	--	--
1300	5050	--	--	--	--	--	--	--	5 5	4	--	--	--	--	--	--	--
07/23/75	5050	23.0C	8.3	7.4	--	--	--	--	0.8 R	3	--	--	--	--	--	--	--
1400	5050	97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C0 5180.10 KERN RIVER AT BANCHERIA BRIDGE																	
10/02/74	5050	9.3	7.7	--	--	--	--	--	0.9 R	--	--	--	--	--	--	--	--
1200	5050	--	--	--	--	--	--	--	3 5	3	--	--	--	--	--	--	--
07/23/75	5050	23.0C	8.2	7.5	--	--	--	--	1.2 R	2	--	--	--	--	--	--	--
1330	5050	93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C1 1115.50 KINGS RIVER NEAR PIEDRA																	
10/23/74	5050	16.5C	10.2	7.2	--	--	--	--	0.8 R	--	--	--	--	--	--	--	--
1545	5050	25	--	--	--	--	--	--	4 5	4	--	--	--	--	--	--	--
05/07/75	5050	11.0C	11.9	8.4	--	--	--	--	0.8 R	2	--	--	--	--	--	--	--
1100	5050	30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C1 1320.00 BIG CREEK ABOVE PINE FLAT RESERVOIR																	
10/23/74	5050	10.0C	10.1	7.9	--	--	--	--	0.8 R	--	--	--	--	--	--	--	--
1330	5050	130	1.3R	--	--	--	--	--	4 5	3	--	--	--	--	--	--	--
05/07/75	5050	13.0C	10.3	7.4	--	--	--	--	0.9 R	2	--	--	--	--	--	--	--
1230	5050	50	2.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C1 1460.00 KINGS RIVER BELOW NORTH FORK																	
10/23/74	5050	15.0C	10.6	7.3	--	--	--	--	0.2 R	--	--	--	--	--	--	--	--
1215	5050	45	--	--	--	--	--	--	1 5	1	--	--	--	--	--	--	--
05/07/75	5050	12.8C	10.9	7.2	--	--	--	--	0.9 R	2	--	--	--	--	--	--	--
1345	5050	30	5.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C1 4115.30 KINGS RIVER SOUTH FORK AT CEDAR GROVE																	
10/23/74	5050	7.1C	10.1	7.3	--	--	--	--	0.1 R	--	--	--	--	--	--	--	--
0835	5050	34	--	--	--	--	--	--	0 5	0	--	--	--	--	--	--	--
05/07/75	5050	5.0C	11.4	7.6	700	--	--	--	0.5 R	2	--	--	--	--	--	--	--
0730	5050	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C2 1210.30 KANEAH RIVER ABOVE LAKE KANEAH																	
10/16/74	5050	20.0C	9.6	7.6	--	--	--	--	0.4 R	--	--	--	--	--	--	--	--
1245	5050	125	--	--	--	--	--	--	5 5	3	--	--	--	--	--	--	--
04/23/75	5050	57.0F	10.4	7.5	--	--	--	--	1.1 R	2	--	--	--	--	--	--	--
1300	5050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/08/75	5050	24.5C	8.0	7.8	--	--	--	--	0.5 R	1	--	--	--	--	--	--	--
1300	5050	80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C2 2010.30 KANEAH RIVER NORTH FORK NEAR MOUTH																	
10/16/74	5050	18.7C	9.6	7.6	--	--	--	--	0.5 R	--	--	--	--	--	--	--	--
0950	5050	158	--	--	--	--	--	--	9 5	4	--	--	--	--	--	--	--
04/23/75	5050	53.0F	10.8	7.4	--	--	--	--	0.9 R	2	--	--	--	--	--	--	--
1015	5050	84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/08/75	5050	24.0C	8.1	7.6	--	--	--	--	0.4 R	1	--	--	--	--	--	--	--
0930	5050	118	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C2 3147.00 KANEAH RIVER WF BELOW NO 2 INTAKE NR THREE RIVERS																	
10/16/74	5050	14.0C	9.2	7.6	--	--	--	--	0.5 R	--	--	--	--	--	--	--	--
0820	5050	82	--	--	--	--	--	--	4 5	4	--	--	--	--	--	--	--
04/23/75	5050	47.0F	12.0	7.4	--	--	--	--	0.9 R	2	--	--	--	--	--	--	--
0900	5050	54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/08/75	5050	21.5C	8.1	7.2	--	--	--	--	0.7 R	1	--	--	--	--	--	--	--
0830	5050	52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C2 4201.50 KANEAH RIVER SOUTH FORK ABOVE GROUSE CREEK																	
10/16/74	5050	18.3C	9.0	7.7	--	--	--	--	0.7 R	--	--	--	--	--	--	--	--
1115	5050	140	--	--	--	--	--	--	10 5	4	--	--	--	--	--	--	--
04/23/75	5050	50.0F	11.0	7.5	--	--	--	--	0.8 R	2	--	--	--	--	--	--	--
1150	5050	98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/08/75	5050	27.0C	8.2	8.0	--	--	--	--	0.4 R	1	--	--	--	--	--	--	--
1130	5050	110	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE D-4 (Cont'd)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO O ₂	F-PH L-PM	DISCH MBAS	DEPTH TURNS	T-L CHLOR	SET S		BOD SUS S	COD V SUS S	CYANIDE PHENDLS	TOC DOC	IODIDE T ODOOR	AROMINE SULFITE	T SULF D SULF	CC EXT CA EXT
								O+G COLOR	ML/L MG/L								
C3 1929.30 TULE RIVER BELOW SPRINGVILLE																	
10/30/74	5050	17.7C	12.1	8.3	--	--	--	--	1.9 C	--	--	--	--	--	--	--	--
1140	5050	275	--	--	--	--	--	--	31 S	3	--	--	--	--	--	--	--
04/09/75	5050	10.2C	11.2	8.2	--	--	--	--	1.2 R	3	--	--	--	--	--	--	--
1100	5050	130	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/20/75	5050	24.5C	9.2	8.0	--	--	--	--	2.1 R	4	--	--	--	--	--	--	--
1200	5050	300	3.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C3 2190.10 TULE RIVER NORTH FORK AT BEAR CREEK ROAD																	
10/30/74	5050	15.0C	10.0	7.7	--	--	--	--	1.2 C	--	--	--	--	--	--	--	--
0945	5050	271	--	--	--	--	--	--	15 S	3	--	--	--	--	--	--	--
04/09/75	5050	4.5C	11.1	7.4	--	--	--	--	1.7 R	3	--	--	--	--	--	--	--
0920	5050	62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/20/75	5050	25.0C	8.0	7.2	--	--	--	--	1.7 R	5	--	--	--	--	--	--	--
1000	5050	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C3 3200.00 TULE RIVER SOUTH FORK OF MIDDLE FORK NEAR SPRINGVILLE																	
10/30/74	5050	4.2C	10.3	8.2	--	--	--	--	1.4 C	3	--	--	--	--	--	--	--
0800	5050	232	2.50	--	--	--	--	--	37 S	3	--	--	--	--	--	--	--
04/09/75	5050	4.7C	12.1	8.2	--	--	--	--	1.8 R	3	--	--	--	--	--	--	--
0400	5050	180	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/20/75	5050	15.5C	8.1	8.2	--	--	--	--	0.8 R	3	--	--	--	--	--	--	--
0830	5050	215	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C3 4149.30 TULE RIVER SOUTH FORK ABOVE CREN CREEK																	
10/30/74	5050	14.0C	9.6	7.7	--	--	--	--	2.7 C	--	--	--	--	--	--	--	--
1740	5050	146	--	--	--	--	--	--	16 S	4	--	--	--	--	--	--	--
04/09/75	5050	11.2C	10.8	7.6	--	--	--	--	1.4 R	4	--	--	--	--	--	--	--
1200	5050	98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/20/75	5050	27.0C	8.1	8.1	--	--	--	--	1.0 R	2	--	--	--	--	--	--	--
1300	5050	155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C5 1220.10 KERN RIVER AT MIRACLE HOT SPRINGS																	
10/02/74	5050	8.6	7.4	--	--	--	--	--	1.2 R	--	--	--	--	--	--	--	--
1000	5050	--	--	--	--	--	--	--	2 S	2	--	--	--	--	--	--	--
07/23/75	5050	21.0C	8.2	7.5	--	--	--	--	1.6 P	2	--	--	--	--	--	--	--
1130	5050	90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C5 1500.00 KERN RIVER AT KERNVILLE																	
10/02/74	5050	9.7	7.5	--	--	--	--	--	1.6 R	--	--	--	--	--	--	--	--
0745	5050	--	--	--	--	--	--	--	12 S	5	--	--	--	--	--	--	--
07/23/75	5050	19.0C	8.6	7.6	--	--	--	--	0.6 R	1	--	--	--	--	--	--	--
0930	5050	75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C5 1660.10 KERN RIVER ABOVE FAIRVIEW																	
10/02/74	5050	6.3	7.6	--	--	--	--	--	0.5 R	--	--	--	--	--	--	--	--
0630	5050	--	--	--	--	--	--	--	1 S	1	--	--	--	--	--	--	--
07/23/75	5050	14.5C	8.1	7.4	--	--	--	--	0.8 R	0	--	--	--	--	--	--	--
0800	5050	65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C5 3110.10 KERN RIVER SOUTH FORK NEAR WELDON																	
10/02/74	5050	8.4	8.1	--	--	--	--	--	6.1 R	--	--	--	--	--	--	--	--
0915	5050	--	--	--	--	--	--	--	12 S	5	--	--	--	--	--	--	--
H0 7620.00 SAN JOAQUIN RIVER NEAR VERNALIS																	
10/02/74	5001	19 C	6.9	7.6	--	3	--	--	--	--	--	--	--	--	--	--	--
1035	5050	345	--	--	--	--	--	--	26 S	7	--	--	--	--	--	--	--
10/16/74	5001	19 C	7.3	7.6	2700	3	--	--	--	--	--	--	--	--	--	--	--
1030	5050	500	12.37	--	--	--	--	--	35 S	12	--	--	--	--	--	--	--
10/17/74	5050	64 F	7.0	7.2	--	--	--	--	4.2 R	5	--	--	--	--	--	--	--
0800	5050	400	12.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11/26/74	5001	14 C	8.7	7.3	4500	3	--	--	--	--	--	--	--	--	--	--	--
1425	5050	330	14.49	--	--	--	--	--	28 S	4	--	--	--	--	--	--	--
11/18/74	5001	16 C	8.9	7.3	3670	3	--	--	--	--	--	--	--	--	--	--	--
1720	5050	440	13.57	--	--	--	--	--	20 S	2	--	--	--	--	--	--	--
11/21/74	5050	17.0C	8.8	7.3	--	--	--	--	2.0 R	6	--	--	--	--	--	--	--
0900	5050	310	13.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/17/74	5001	19 C	10.1	7.6	4510	3	--	--	--	--	--	--	--	--	--	--	--
1300	5050	375	14.62	--	--	--	--	--	26 S	4	--	--	--	--	--	--	--
12/19/74	5050	10.0C	8.7	7.2	--	--	--	--	2.0 R	6	--	--	--	--	--	--	--
0400	5050	358	12.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE D-4 (Cont'd)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.M.	F-PH L-PH	DISCH CUBAS	DEPTH TURB	T-L CHLOR	SET 5 O-G ML/L COLOR	800 SUS 5	COD SUS 5	CYANIDE PHENOLS	TOT DOC	IODIDE T DODR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
RD 7620.00 SAN JOAQUIN RIVER NEAR VERNALIS CONTINUED																
01/21/75	S003	10 C 9.8	7.5	2750	3	--	--	--	--	--	--	--	--	--	--	--
1600	S050	645 12.56	--	--	--	--	--	--	32	5	12	--	--	--	--	--
02/03/75	S001	11 C 9.9	--	3320	3	--	--	--	--	--	--	--	--	--	--	--
1450	S050	633 13.27	--	--	--	--	--	--	40	5	5	--	--	--	--	--
03/18/75	S001	11 C 9.7	7.6	6420	3	--	--	--	--	--	--	--	--	--	--	--
1115	S050	468 13.58	--	--	--	--	--	--	48	5	5	--	--	--	--	--
04/01/75	S001	13 C 9.7	7.6	6440	3	--	--	--	--	--	--	--	--	--	--	--
1240	S050	398 16.46	--	--	--	--	--	--	57	5	7	--	--	--	--	--
04/18/75	S001	15 C 9.4	7.4	3380	3	--	--	--	--	--	--	--	--	--	--	--
1410	S050	633 13.22	--	--	--	--	--	--	38	5	5	--	--	--	--	--
05/01/75	S001	19 C 8.9	7.8	2510	3	--	--	--	--	--	--	--	--	--	--	--
1335	S050	702 12.14	--	--	--	--	--	--	56	5	12	--	--	--	--	--
05/15/75	S001	18 C 9.5	7.8	3870	3	--	--	--	--	--	--	--	--	--	--	--
1210	S050	405 13.79	--	--	--	--	--	--	61	5	8	--	--	--	--	--
06/03/75	S001	10 C 8.9	7.3	6670	3	--	--	--	--	--	--	--	--	--	--	--
1700	S050	198 16.61	--	--	--	--	--	--	47	5	5	--	--	--	--	--
06/17/75	S001	19 C 8.7	7.6	7430	3	--	--	--	--	--	--	--	--	--	--	--
1615	S050	140 17.69	--	--	--	--	--	--	58	5	--	--	--	--	--	--
06/25/75	S050	10 C 8.2	7.8	2730	3	--	--	--	13	F	--	--	--	--	--	--
1010	S050	531 12.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/25/75	S050	10 C 8.2	7.8	2730	3	--	--	--	80	5	16	--	--	--	--	--
1011	S001	531 12.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/01/75	S001	21 C 9.8	8.2	2670	3	--	--	--	86	5	12	--	--	--	--	--
1535	S050	736 11.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/15/75	S001	22 C 8.7	8.2	1560	3	--	--	--	156	5	19	--	--	--	--	--
1510	S050	778 10.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/23/75	S001	25 C 7.4	7.4	--	3	--	--	--	--	--	--	--	--	--	--	--
1035	S001	865	--	--	--	--	--	--	164	5	25	--	--	--	--	--
08/12/75	S001	26.0C 9.4	7.2	1520	3	--	--	--	--	--	--	--	--	--	--	--
1615	S050	733 10.76	--	--	--	--	--	--	118	5	19	--	--	--	--	--
08/26/75	S001	25 C 7.3	7.7	1790	3	--	--	--	--	--	--	--	--	--	--	--
1200	S050	685 11.14	--	--	--	--	--	--	107	5	12	--	--	--	--	--
09/11/75	S001	22 C 7.9	7.8	2530	3	--	--	--	--	--	--	--	--	--	--	--
1410	S050	471 12.16	--	--	--	--	--	--	73	5	8	--	--	--	--	--
09/25/75	S001	23 C 7.4	7.6	3050	3	--	--	--	--	--	--	--	--	--	--	--
1330	S050	379 12.01	--	--	--	--	--	--	74	5	19	--	--	--	--	--
09/30/75	S050	19 C 8.1	7.8	--	3	--	--	--	--	--	--	--	--	--	--	--
1310	S001	386 55.63	--	--	--	--	--	--	49	5	15	--	--	--	--	--

TABLE D-5
NUTRIENT CONSTITUENTS OF SURFACE WATER

Abbreviations, Chemical Symbols, and Codes used
in this table are:

Abbreviations

EC	Specific electrical conductance in micromhos at 25° Celsius
TURB	Turbidity in turbidity units C = Candle determination AF = Hach (field) determination
PH	Measure of acidity or alkalinity of water
D & DIS	Dissolved Concentration
T	Total Concentration
ORGN	Organic Nitrogen
NH ₃ + ORGN	Ammonia plus Organic Nitrogen as N (total Kjeldahl)
O-PO ₄	Orthophosphate as P
TOT P	Total Phosphate as P
REM	Remarks

Chemical Symbols

NO ₂	Nitrite as N
NO ₃	Nitrate as N
NH ₃	Ammonia as N
CACO ₃ T	Total Alkalinity (Bicarbonate)

Sampler (SAMP) and Laboratory (LAB) Codes

5050 Department of Water Resources

TABLE D-5

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TABLE D-5 (Cont'd)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.M. DISCH.	TEMP DEPTH	F-PH LA8	F-EC EC	FIELD				D NO2 + NO3 T NH3	NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER								D TOT P T TOT P	REMARKS
						TURB CACO3	P	T	D NO2		D NH3	D NO3	D ORG N	D ORG P	O-PO4	O-PO4	O-PO4			
RD 6369.50 OUTCHMAN CREEK AT BAXTER ROAD																				
02/05/75	5:50		4.10	9	C	7.2	90			--	--	--	--	--	--	--	--	--	--	--
065N	5:30									--	0.58	--	1.8	--	--	--	--	--	0.22	
03/12/75	5:50					53.0F	7.9			--	--	--	--	--	--	--	--	--	--	--
072N	5:50		2.6							--	0.08	--	1.4	--	--	--	--	--	0.10	
04/16/75	5:50		3.77	12.0C	8.3	212				--	--	--	--	--	--	--	--	--	--	--
075S	5:50									--	0.03	--	0.7	--	--	--	--	--	0.07	
RD 6399.50 DEADMAN CREEK AT BAXTER ROAD																				
02/05/75	5:50		4.50	9	C	7.2	70			--	--	--	--	--	--	--	--	--	--	--
070N	5:30									--	0.79	--	1.4	--	--	--	--	--	0.19	
03/12/75	5:50					11.8	11.8C	7.5	126	--	--	--	--	--	--	--	--	--	--	--
0800	5:30									--	0.21	--	0.8	--	--	--	--	--	0.06	
04/16/75	5:50		3.08	12.5C	7.9	172				--	--	--	--	--	--	--	--	--	--	--
0815	5:50									--	0.02	--	0.5	--	--	--	--	--	0.06	
RD 7020.00 SAN JOAQUIN RIVER NEAR VERNALIS																				
10/02/74	5:01			19	C	7.6	345	144F		--	--	--	0.00	0.0	--	0.07	--	--	--	--
1035	5:01			3						0.06	0.64	--	0.40	0.46	--	--	--	--	0.16	
10/16/74	5:01		12.37	19	C	7.6	500	244F		--	--	--	0.67	0.7	--	0.10	--	--	--	--
1030	5:01		2700	3						0.03	0.84	--	1.13	1.16	--	--	--	--	0.23	
11/06/74	5:01		14.59	14	C	7.3	330	164F		--	--	--	0.53	0.6	--	0.06	--	--	--	--
1425	5:01		4500	3						0.07	0.66	--	0.67	0.74	--	--	--	--	0.11	
11/18/74	5:01		13.57	15	C	7.3	440	104F		--	--	--	0.71	0.8	--	0.08	--	--	--	--
132N	5:01		1670	3						0.09	0.52	--	0.85	0.94	--	--	--	--	0.13	
12/17/74	5:01		14.62	12	C	7.6	375	94F		--	--	--	0.23	0.3	--	0.07	--	--	--	--
1300	5:01		4510	3						0.07	0.47	--	0.31	0.38	--	--	--	--	0.11	
12/19/74	5:50		12.67	10.0C	7.2	358				--	--	--	--	--	--	--	--	--	--	--
0900	5:50									--	0.57	--	--	--	--	--	--	--	--	--
01/21/75	5:01		12.56	10	C	7.5	645	84F		--	--	--	0.38	0.5	--	0.04	--	--	--	--
1800	5:01		2750	3						0.12	0.95	--	0.50	0.62	--	--	--	--	0.17	
02/03/75	5:01		13.27	11	C		633	164F		--	--	--	0.66	0.8	--	0.08	--	--	--	--
1450	5:01		3325	3						0.14	0.76	--	0.90	1.04	--	--	--	--	0.19	
03/18/75	5:01		16.38	13	C	7.6	408	224F		0.72	0.01	0.4	--	--	--	0.09	--	--	--	--
1115	5:01		4420	3						0.05	0.71	0.5	0.55	--	--	--	--	0.15		
04/01/75	5:01		16.40	13	C	7.6	398	254F		0.71	0.01	0.5	--	--	--	0.05	--	--	--	--
1240	5:01		4440	3						0.03	0.70	0.6	0.63	--	--	--	--	0.14		
04/18/75	5:01		13.22	15	C	7.4	633	264F		1.0	0.02	0.3	--	--	--	0.10	--	--	--	--
1410	5:01		3380	3						0.02	0.98	0.7	0.72	--	--	--	--	0.18		
05/01/75	5:01		12.14	19	C	7.8	702	324F		1.02	0.02	0.7	--	--	--	0.13	--	--	--	--
1335	5:01		2510	3						0.10	1.0	0.9	1.0	--	--	--	--	0.22		
05/15/75	5:01		13.79	18	C	7.8	405	194F		0.47	0.02	0.4	--	--	--	0.08	--	--	--	--
121N	5:01		3870	3						0.00	0.45	0.5	0.5	--	--	--	--	0.15		
08/03/75	5:01		16.61	19	C	7.3	198	184F		0.94	0.00	0.4	--	--	--	0.06	--	--	--	--
1700	5:01		4670	3						0.00	0.94	0.5	0.5	--	--	--	--	0.15		
08/17/75	5:01		17.69	19	C	7.6	140	174F		0.32	0.00	0.3	--	--	--	0.05	--	--	--	--
1615	5:01		2930	3						0.00	0.32	0.3	0.3	--	--	--	--	0.10		
08/25/75	5:50			19	C	7.8	531	384F		--	--	--	0.37	--	--	0.08	--	--	--	--
1010	5:01		2930	3						0.03	0.78	0.83	0.86	--	--	--	--	0.26		
07/01/75	5:01			21	C	8.2	736	324F		1.22	0.02	0.5	--	--	--	0.09	--	--	--	--
1535	5:01			3						0.00	1.2	1.0	1.0	--	--	--	--	0.27		
07/15/75	5:01		10.93	22	C	8.2	778	504F		1.11	0.01	0.2	--	--	--	0.09	--	--	--	--
1510	5:01			3						0.00	1.1	1.2	1.2	--	--	--	--	0.29		
07/23/75	5:50			25	C	7.4	865	544F		--	--	--	0.64	--	--	0.11	--	--	--	--
1035	5:01			3						0.08	1.30	1.48	1.52	--	--	--	--	0.32		
08/12/75	5:01		26.0C	7.2	733	484F				1.33	0.03	0.8	--	--	--	0.12	--	--	--	--
1615	5:50			3						0.03	1.3	1.0	1.03	--	--	--	--	0.12		
08/26/75	5:01		11.14	25	C	7.7	685	314F		1.22	0.02	0.6	--	--	--	0.07	--	--	--	--
1200	5:50		1700	3						0.01	1.2	1.0	1.01	--	--	--	--	0.24		
09/11/75	5:01		12.16	22	C	7.8	471	194F		0.92	0.01	0.6	--	--	--	0.06	--	--	--	--
1410	5:50		2530	3						0.00	0.91	0.7	0.7	--	--	--	--	0.13		
09/25/75	5:01		12.61	23	C	7.8	379	194F		0.7	0.01	0.4	--	--	--	0.06	--	--	--	--
1330	5:50		3050	3						0.00	0.69	0.4	0.4	--	--	--	--	0.26		
RD 7040.00 SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE																				
06/25/75	5:50									--	--	--	--	--	--	--	--	--	--	--
085N	5:01									0.03	0.82	--	0.64	0.30	--	--	--	--	0.10	0.28
07/23/75	5:50		25	C	7.9	931	744F			--	--	--	0.87	--	--	--	--	--	0.13	--
0825	5:01		3							0.03	1.45	1.85	1.88	--	--	--	--	--	0.39	
RD 7080.00 SAN JOAQUIN RIVER NEAR GRAYSON																				
06/25/75	5:50			19	C		34C			--	--	--	--	--	--	--	--	--	--	--
0845	5:01					526		92		0.02	0.82	--	0.56	0.50	--	--	--	--	0.11	--
07/23/75	5:50			24	C	7.7	982	604F		--	--	--	0.50	--	--	--	--	--	0.14	--
0905	5:01			3				148		0.10	1.30	1.42	1.52	--	--	--	--	--	0.38	
RD 7200.00 SAN JOAQUIN RIVER AT PATTERSON BRIDGE																				
06/24/75	5:50			20	C		26C	79		--	--	--	--	--	--	--	--	--	--	--
1230	5:01					494				0.04	0.66	--	0.48	0.50	--	0.09	--	--	0.25	
07/22/75	5:50			28	C	8.1	756	544F		--	--	--	1.08	--	--	--	--	--	0.13	--
1220	5:01			3				108		0.02	1.40	1.96	1.98	--	--	--	--	--	0.33	

TABLE D-5 (Cont'd)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	GWA USCN	TEMP DEPTH	F-PH LAB	F-EC EC	FIELD			D NO2 T NH3	D NO3	NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER					O TOT P T TOT P	REM
						TURN	CAC03	P			D ORO N	D NH3	D O15	D O-P04	D O-TOT P		
B0 7250.00 SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE																	
06/24/75 5:50			20 C				29C		--	--	--	--	--	--	--	--	--
1140 5:50							464		0.03	0.40	0.44	0.40	--	--	0.08	0.21	--
07/22/75 5:50			2A C 8.1			706	50AF	101	--	0.92	1.19	--	--	--	0.08	--	--
1140 5:50			3						0.01	--	1.99	2.00	--	--	--	0.20	--
B0 7375.00 SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE																	
05/21/75 5:50			20 C 8.0			900			--	--	--	--	--	--	0.17	--	--
1314 5:50						1040			--	0.25	--	--	--	--	--	--	--
06/24/75 5:50			21 C			1145	35C		0.03	0.75	1.54	0.90	--	--	0.08	0.38	--
1035 5:50									--	--	--	--	--	--	--	--	--
07/22/75 5:50			26 C 7.9			813	30AF	108	--	--	1.52	--	--	--	0.11	--	--
1035 5:50			2						0.08	0.71	2.56	2.74	--	--	--	0.43	--
08/20/75 5:50			24 C 7.4			1009			--	3.7	--	--	--	--	0.14	--	--
1130 5:50						976			--	--	--	--	--	--	--	--	--
B0 7886.50 SAN JOAQUIN RIVER AT NORTH FORK ROAD BRIDGE																	
10/08/74 5:50			9.5C 6.8			30			--	--	--	--	--	--	0.00	--	--
0615 5:50									--	0.06	--	0.2	--	--	--	0.05	--
07/09/75 5:50			11.5C 6.8			30			0.05	0.00	--	--	--	--	--	--	--
0700 5:50									--	0.05	--	0.4	--	--	--	0.08	--
B3 1406.50 STANISLAUS RIVER AT PARROTTS FERRY BRIDGE																	
06/18/75 5:50			13.0C 8.3			25			0.02	0.00	--	--	--	--	--	--	--
1130 5:50									--	0.02	--	0.2	--	--	--	0.04	--
09/17/75 5:50			16.4C 7.3			35			0.01	0.00	--	--	--	--	--	--	--
1230 5:50									--	0.01	--	0.1	--	--	--	0.02	--
B3 2110.10 STANISLAUS RIVER NF AT CALAVERAS BIG TREES STATE PARK																	
06/18/75 5:50			12.0C 6.8			18			0.02	0.00	--	--	--	--	--	--	--
1330 5:50									--	0.02	--	0.1	--	--	--	0.18	--
09/17/75 5:50			19.0C 7.2			2A			0	0.00	--	--	--	--	--	--	--
1400 5:50									--	0.00	--	0.1	--	--	--	0.01	--
B3 3255.00 STANISLAUS RIVER MIDDLE FORK AT REAROSLEY																	
06/18/75 5:50			9.8C 8.3			25			0.04	0.00	--	--	--	--	--	--	--
0900 5:50									--	0.04	--	0.2	--	--	--	0.08	--
09/17/75 5:50			16.0C 7.2			35			0.01	0.00	--	--	--	--	--	--	--
0930 5:50									--	0.01	--	0.1	--	--	--	0.13	--
B3 3480.10 STANISLAUS RIVER MIDDLE FORK AT DAMANELLE																	
06/18/75 5:50			4.9C 8.1			20			0.07	0.00	--	--	--	--	--	--	--
0830 5:50									--	0.07	--	0.2	--	--	--	0.16	--
09/17/75 5:50			14.5C 7.0			20			0	0.00	--	--	--	--	--	--	--
0800 5:50									--	0.00	--	0.2	--	--	--	0.02	--
B4 1231.50 SULLIVAN CREEK AT JACKSONVILLE ROAD																	
04/23/75 2103			11.0C 8.3			90			0.01	0.00	--	--	--	--	0.00	--	--
1030 5:50			72.3						--	0.01	--	0.2	--	--	--	0.02	--
B4 1232.50 WOODS CREEK AT SLATE CREEK																	
04/23/75 2103			13.0C 8.4			220			0.47	0.02	--	--	--	--	0.28	--	--
1000 5:50			15.4						--	0.45	--	0.3	--	--	--	0.28	--
B4 1235.50 WOODS CREEK BELOW JAMESTOWN STP																	
04/23/75 2103			11.3C 8.2			220			0.69	0.04	--	--	--	--	0.31	--	--
0830 5:50			12.0						--	0.65	--	0.4	--	--	--	0.35	--
B4 1238.50 WOODS CREEK BELOW SONORA STP																	
04/23/75 2103			11.0C 8.1			247			0.51	0.07	--	--	--	--	0.65	--	--
0800 5:50			6.9						--	0.44	--	1.7	--	--	--	0.65	--
B4 1239.50 WOODS CREEK AT COUNTY FAIRGROUNDS																	
04/23/75 2103			11.0C 8.2			260			0.29	0.00	--	--	--	--	0.00	--	--
0730 5:50			3.7						--	0.29	--	0.1	--	--	--	0.02	--
B4 1241.50 WOODS CREEK AT JACK PAGE ROAD ABOVE SONORA																	
04/23/75 2103			10.9C 8.0			212			0.1	0.00	--	--	--	--	0.00	--	--
0615 5:50			3.2						--	0.10	--	0.1	--	--	--	0.01	--
B4 1290.10 TUOLUMNE RIVER AT WARUS FERRY BRIDGE																	
06/04/75 5:50			11.7C 6.8			12			0.01	0.00	--	--	--	--	--	--	--
1100 5:50									--	0.01	--	0.1	--	--	--	0.04	--
09/24/75 5:50			27.0C 7.4			50			0.02	0.00	--	--	--	--	--	--	--
1230 5:50									--	0.02	--	0.5	--	--	--	0.02	--
B4 1880.00 TUOLUMNE RIVER ABOVE EARLY INTAKE																	
06/04/75 5:50			9.8C 6.8			10			0.02	0.00	--	--	--	--	--	--	--
0900 5:50									--	0.02	--	0.2	--	--	--	0.02	--
09/24/75 5:50			13.8C 6.8			9			0.08	0.00	--	--	--	--	--	--	--
0930 5:50									--	0.08	--	0.1	--	--	--	0.00	--
B4 1850.10 TUOLUMNE RIVER AT TUOLUMNE MEADOWS																	
06/04/75 5:50			2.1C 6.8			4			0.03	0.00	--	--	--	--	--	--	--
0630 5:50									--	0.03	--	0.1	--	--	--	0.00	--
09/24/75 5:50			8.1C 7.0			18			0.06	0.00	--	--	--	--	--	--	--
0700 5:50									--	0.06	--	0.1	--	--	--	0.00	--

TABLE D-5 (Cont'd)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.M. DISCH.	TEMP DEPTH	F-PH LAB	F-EC LAB	FIELD				NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER										O TOT P T TOT P REM		
						TURB	CAC03 P	D NO2 + NO3 T NH3	O NO2	O ORG N	D INH3 + T ORG N	OIS	O O-PO4	O TOT P								
B5 R 735.7 016.2 1 LAKE MCCLURE NEAR MCCLURE POINT																						
07/10/75	5090 5090			8.3		50			--	--	--	--	--	0.00	--					--	0.01	
09/03/75	5:50 1425			6.6		47			--	0.01	--	--	--	--	0.01					--	0.01	
B5 R 736.2 004.1 1 LAKE MCCLURE AT INLET (HEAD)																						
07/10/75	5:50 0930			18.4C	7.4	18			--	0.01	0.01	--	--	--	--	0.00					--	0.01
09/03/75	5:50 1000			20.5C	7.0	57			--	--	--	--	--	--	--	0.01					--	0.03
B5 R 736.7 007.9 1 LAKE MCCLURE AT BAGBY																						
07/10/75	5:50 5:50			8.3		34			0.01	0.00	--	--	--	--	0.00					--	0.01	
09/03/75	5:50 1100			7.0		40			0.03	0.00	--	--	--	--	0.00					--	0.02	
B5 R 736.8 017.3 1 LAKE MCCLURE AT BARRETT COVE																						
07/10/75	5:50 5:50			7.8		48			0.01	0.00	--	--	--	--	0.00					--	0.00	
09/03/75	5:50 1400			7.0		42			--	--	--	--	--	--	0.00					--	0.01	
B5 R 740.5 013.8 1 LAKE MCCLURE AT LOWER HOUSESHOE BEAD																						
07/10/75	5:50 5:50			7.2		39			0.01	0.00	--	--	--	--	0.00					--	0.01	
09/03/75	5:50 5:50			6.6		37			--	0.00	--	--	--	--	0.00					--	0.01	
B5 R 741.6 014.1 1 LAKE MCCLURE AT UPPER HOUSESHOE BEAD																						
07/10/75	5:50 5:50			8.3		40			0.02	0.00	--	--	--	--	0.00					--	0.01	
09/03/75	5:50 1305			6.9		39			--	0.00	--	--	--	--	0.01					--	0.01	
B5 1200.00 MERCED RIVER BELOW EXCHEQUER DAM																						
09/03/75	5:50 0800			55.4C	7.5	29			0.00	0.07	--	--	--	--	0.00					--	0.01	
B5 1320.00 MERCED RIVER AT BAGBY																						
11/13/74	5:50 1530			21.5C	7.1	63			--	--	--	--	0.1	--	0.01					--	0.02	
B5 1410.10 MERCED RIVER ABOVE HICHERBURG																						
11/13/74	5:50 1330			10.4C	7.3	40			--	--	--	--	0.0	--	0.01					--	0.01	
B5 1517.10 MERCED RIVER BELOW EL PORTAL																						
11/13/74	5:50 1130			8.4C	7.3	37			--	0.21	--	--	0.0	--	0.02					--	0.06	
B5 1519.50 MERCED RIVER AT JUNCTION BIG OAK FLAT RD AND HWY 140																						
11/13/74	5:50 0930			7.2C	6.8	30			--	0.31	--	--	0.0	--	0.02					--	0.03	
B5 1700.00 MERCED RIVER AT HAPPY ISLES BRIDGE NEAR YOSEMITE																						
11/13/74	5:50 0715			1.37	4.4C	7.0	23		--	0.03	--	--	0.0	--	0.00					--	0.01	
B5 5152.10 BEAR CREEK ABOVE BEAR CREEK RESERVOIR																						
02/05/75	5:50 1445			9.4C	7.5	75			--	0.35	--	--	0.5	--	--					--	0.09	
03/12/75	5:50 1100			11.5C	8.0	132			--	0.04	--	--	0.3	--	--					--	0.03	
04/16/75	5:50 1430			15.5C	7.9	185			--	0.03	--	--	0.2	--	--					--	0.04	
B5 6152.50 BURNS CREEK AT MERCED MARIPOSA COUNTY LINE																						
02/05/75	5:50 1625			11.5C	7.5	105			--	0.89	--	--	0.6	--	--					--	0.07	
03/12/75	5:50 0930			10.7C	7.4	156			--	0.20	--	--	0.5	--	--					--	0.04	
04/16/75	5:50 0915			12.4C	8.0	205			--	0.05	--	--	0.3	--	--					--	0.03	
B6 2020.10 OWENS CREEK ABOVE OWENS RESERVOIR																						
02/05/75	5:50 1250			10.0C	7.8	115			--	0.48	--	--	0.4	--	--					--	0.17	
03/12/75	5:50 0920			11 C	8.2	210			--	0.06	--	--	0.6	--	--					--	0.07	
04/16/75	5:50 1245			15.4C	11.3	249			--	0.04	--	--	0.4	--	--					--	0.07	

TABLE D-5 (Cont'd)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.M. DISCH	TEMP DEPTH	F-PH	F-EC	TURB F-CO2	CACO3 T	NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER										TOT P	REM
								0 NO2 + NO3 T NH3	0 NO2 D NO3	0 ORG N T ORG N	0 (NH3 + D NH3)	015 A.M.P.C.A.	0 0-PO4 T 0-PO4	0 TOT P T TOT P					
B6 2204.10 MARIPOSA CREEK ABOVE MARIPOSA RESERVOIR																			
02/05/75 5:50	104N 5:50	200 E	8.5C	7.4	60			--	0.49	--	0.4	--	--	--	--	--	--	0.09	
03/12/75 5:50	1100 5:50	121		8.2	121			--	0.15	--	0.3	--	--	--	--	--	--	0.04	
04/16/75 5:50	1200 5:50		12.0C	8.2	135			--	0.12	--	0.3	--	--	--	--	--	--	0.07	
B7 1340.00 SAN JOAQUIN RIVER ABOVE WILLOW CREEK NEAR AUHERRY																			
10/08/74 5:50	083N 5:50		9.7C	6.8	22			--	0.03	--	0.1	--	0.00	--	--	--	--	0.02	
07/09/75 5:50	093N 5:50		12.5C	6.8	15			0.03	0.00	--	0.1	--	--	--	--	--	--	0.00	
B7 1532.50 SAN JOAQUIN RIVER BELOW SHAKELAT CREEK																			
10/08/74 5:50	124S 5:50		18.5C	7.3	50			--	0.04	--	0.1	--	0.00	--	--	--	--	0.01	
07/09/75 5:50	123N 5:50		13.0C	6.1	15			0.02	0.00	--	0.2	--	--	--	--	--	--	0.00	
B7 4250.50 SAN JOAQUIN RIVER SOUTH FORK AT MONG HOT SPRINGS																			
10/09/74 5:50	120N 5:50		8.5C	6.9	20			--	0.00	--	0.1	--	0.00	--	--	--	--	0.01	
07/09/75 5:50	093N 5:50		17.0C	6.8	25			0.01	0.00	--	0.1	--	--	--	--	--	--	0.00	
C0 2550.30 KAWAHEH RIVER AT LEMONCOVE																			
10/16/74 5:50	143N 5:50		21.1C	7.5	120			--	0.06	--	0.2	--	0.01	--	--	--	--	0.02	
04/23/75 5:50	140N 5:50		57.0F		112			0.02	0.00	--	0.3	--	--	--	--	--	--	0.04	
08/06/75 5:50	140N 5:50		23.5C	7.1	50			0.02	0.00	--	0.3	--	--	--	--	--	--	0.00	
C0 3195.00 TULE RIVER AT NORTH BRIDGE NEAR PORTERVILLE																			
10/30/74 5:50	150N 5:50		18.0C	7.7	232			--	0.37	--	0.6	--	0.05	--	--	--	--	0.10	
04/09/75 5:50	132N 5:50		13.5C	7.8	180			0.01	0.00	--	0.3	--	--	--	--	--	--	0.04	
08/20/75 5:50	143N 5:50		24.0C	7.0	145			0.04	0.01	--	0.6	--	--	--	--	--	--	0.08	
C0 5100.10 KERN RIVER AT HART PARK																			
10/02/74 5:50	130N 5:50		7.7					--	0.17	--	0.2	--	0.02	--	--	--	--	0.06	
07/23/75 5:50	140N 5:50		23.0C	7.4	97			0.2	0.03	--	0.4	--	--	--	--	--	--	0.06	
C0 5180.10 KERN RIVER AT RANCHERIA BRIDGE																			
10/02/74 5:50	120N 5:50		7.7					--	0.17	--	0.2	--	0.02	--	--	--	--	0.03	
07/23/75 5:50	133N 5:50		23.0C	7.5	93			0.23	0.03	--	0.3	--	--	--	--	--	--	0.04	
C1 1115.50 KINGS RIVER NEAR PIEDRA																			
10/23/74 5:50	154S 5:50		16.5C	7.2	25			--	0.02	--	0.2	--	0.01	--	--	--	--	0.02	
05/07/75 5:50	1100 5:50		11.0C	8.4	30			0.02	0.00	--	0.1	--	--	--	--	--	--	0.00	
C1 1320.00 BIG CREEK ABOVE PINE FLAT RESERVOIR																			
10/23/74 5:50	133N 5:50		1.38	14.5C	7.9	130		--	0.00	--	0.1	--	0.00	--	--	--	--	0.04	
05/07/75 5:50	123N 5:50		2.86	13.0C	50			0.02	0.00	--	0.1	--	--	--	--	--	--	0.03	
C1 1460.00 KINGS RIVER BELOW NORTH FORK																			
10/23/74 5:50	121S 5:50		15.0C	7.3	45			--	0.00	--	0.1	--	0.01	--	--	--	--	0.02	
05/07/75 5:50	134N 5:50		5.26	12.8C	7.2	30		0.01	0.00	--	0.1	--	--	--	--	--	--	0.09	
C1 4115.30 KINGS RIVER SOUTH FORK AT CEDAR GROVE																			
10/23/74 5:50	083N 5:50		7.1C	7.3	34			--	0.00	--	0.1	--	0.00	--	--	--	--	0.01	
05/07/75 5:50	073N 5:50	700	5.0C	7.0	22			0.02	0.00	--	0.1	--	--	--	--	--	--	0.00	
C2 1210.30 KAWAHEH RIVER ABOVE LAKE KAWAHEH																			
10/16/74 5:50	124S 5:50		20.0C	7.6	125			--	0.02	--	0.1	--	0.00	--	--	--	--	0.01	
04/23/75 5:50	130N 5:50		57.0F	7.5				--	0.00	--	0.2	--	--	--	--	--	--	0.01	
08/06/75 5:50	130N 5:50		25.4C	7.8	80			--	0.00	--	0.1	--	--	--	--	--	--	0.01	

TABLE D-5 (Cont'd)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.M. DISCH.	TEMP DEPTH	F-RH L48 EC	F-EC L48 EC	FIELD TURB CAC03 P F-CO2 CAC03 T	D NO2 + T NH3	NO3 D NH3	NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER									
									U ORG N T ORG N	U (NH3 + T ORG N)	OIS A.M.P.O4	D O-PO4 T O-PO4	O TOT P T TOT P	REM				
C2 2010.30 KAWAHE RIVER NORTH FORK NEAR MOUTH																		
10/16/74 0950	5050 5050		15.7C	7.6	158		--	--	--	--	0.2	--	0.00	--	0.02			
04/23/75 1015	5050 5050		53.0F	7.4	84		0.02	0.00	--	--	0.2	--	--	--	0.02			
08/06/75 0930	5050 5050		24.0C	7.6	118		0.	0.00	--	--	0.1	--	--	--	0.01			
C2 3147.00 KAWAHE RIVER NF BELOW NO 2 INTAKE NR THREE RIVERS																		
10/16/74 0820	5050 5050		15.0C	7.6	82		--	--	--	--	0.0	--	0.00	--	0.01			
04/23/75 0900	5050 5050		47.0F	7.4	54		0.04	0.00	--	--	0.1	--	--	--	0.00			
06/06/75 0830	5050 5050		21.5C	7.2	52		0.05	0.00	--	--	0.1	--	--	--	0.01			
C2 4201.50 KAWAHE RIVER SOUTH FORK ABOVE GHOUSE CREEK																		
10/16/74 1115	5050 5050		18.3C	7.7	140		--	--	--	--	0.1	--	0.00	--	0.01			
04/23/75 1150	5050 5050		50.0F	7.5	98		0.02	0.00	--	--	0.2	--	--	--	0.01			
08/06/75 1130	5050 5050		22.0C	8.0	110		0.	0.00	--	--	0.1	--	--	--	0.01			
C3 1929.30 TULE RIVER BELOW SPRINGVILLE																		
10/30/74 1140	5050 5050		13.9C	8.3	275		--	--	--	--	0.4	--	0.02	--	0.06			
04/09/75 1100	5050 5050		10.2C	8.2	130		0.02	0.00	--	--	0.1	--	--	--	0.02			
08/20/75 1200	5050 5050	3.44	24.4C	6.0	360		0.02	0.00	--	--	0.3	--	--	--	0.03			
C3 2190.10 TULE RIVER NORTH FORK AT BEAR CREEK ROAD																		
10/30/74 0945	5050 5050		12.0C	7.7	271		--	--	--	--	0.2	--	0.00	--	0.02			
04/09/75 0920	5050 5050		8.5C	7.4	62		0.09	0.00	--	--	0.1	--	--	--	0.01			
08/20/75 1000	5050 5050		23.0C	7.2	260		0.	0.00	--	--	0.4	--	--	--	0.04			
C3 3200.00 TULE RIVER SOUTH FORK OF MIDDLE FORK NEAR SPRINGVILLE																		
10/30/74 0800	5050 5050	2.50	8.2C	8.2	232		--	--	--	--	0.2	--	0.00	--	0.02			
04/09/75 0800	5050 5050		4.7C	8.2	180		0.	0.00	--	--	0.2	--	--	--	0.01			
08/20/75 0830	5050 5050		15.5C	8.2	215		0.	0.00	--	--	0.0	--	--	--	0.06			
C3 4149.30 TULE RIVER SOUTH FORK ABOVE CREW CREEK																		
10/30/74 1340	5050 5050		15.0C	7.7	146		--	--	--	--	0.4	--	0.02	--	0.06			
04/09/75 1200	5050 5050		11.2C	7.6	98		0.26	0.00	--	--	0.2	--	--	--	0.03			
08/20/75 1300	5050 5050		27.0C	8.1	155		0.01	0.00	--	--	0.2	--	--	--	0.04			
C5 1220.10 KERN RIVER AT MIRACLE HOT SPRINGS																		
10/02/74 1000	5050 5050			7.4			--	--	--	--	0.3	--	0.02	--	0.03			
07/23/75 1130	5050 5050		21.0	7.5	90		0.09	0.03	--	--	0.5	--	--	--	0.03			
C5 1500.00 KERN RIVER AT KERNVILLE																		
10/02/74 0745	5050 5050			7.5			--	--	--	--	0.2	--	0.01	--	0.07			
07/23/75 0930	5050 5050		19.0C	7.6	75		0.01	0.00	--	--	0.2	--	--	--	0.02			
C5 1660.10 KERN RIVER ABOVE FAIRVIEW																		
10/02/74 0630	5050 5050			7.6			--	--	--	--	0.0	--	0.01	--	0.01			
07/23/75 0800	5050 5050		16.4C	7.4	85		0.	0.00	--	--	0.2	--	--	--	0.04			
C5 3110.10 KERN RIVER SOUTH FORK NEAR WELDON																		
10/02/74 0915	5050 5050	0.3		8.1			--	--	--	--	0.4	--	0.13	--	0.24			

TABLE D-6
PESTICIDES IN SURFACE WATER

Abbreviations and Codes used in this table are:

Abbreviations

TIME	Pacific Standard Time on a 24-hour clock
TEMP	Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)
EC	Specific electrical conductance in micromhos at 25° Celsius
DO	Dissolved oxygen content in milligrams per litre
PH	Measure of acidity or alkalinity of water
GH	Gage height in feet above an established datum
DEP	Depth in feet at which sample was collected
DISCHARGE	Instantaneous discharge in cubic feet per second

Pesticide Codes

Chlorinated Hydrocarbons

<u>Code</u>	<u>Most Common Name</u>
ATRAZSIMAZ	Atriazine and/or Simazine
CHLORDANE	Chlordane
DACTHAL	Dacthal, DCPA
UNKNOWNNS	Complex chlorinated hydrocarbon compound mixture reported as DDT, one or more
NONE	
DETECTED	No detectable amount of Chlorinated Hydrocarbons

Organic Phosphorus

DIAZINON	Diazinon
UNKNOWNNS	Complex organic phosphorus mixture reported as Parathion, one or more
NONE	
DETECTED	No detectable amount of Organic Phosphorus

Sampler (SAMP) and Laboratory (LAB) Codes

5001	U. S. Bureau of Reclamation
5050	Department of Water Resources

TABLE D-6

DATE TIME	SAMP LAB	TEMP EC	DO PH	R.H. DEP DISCHARGE	PESTICIDES IN SURFACE WATER COMPOUNDS REPORTED IN MILLIGRAMS/LITER				OTHER	
					CHLORINATED HYDROCARBON		ORGANIC PHOSPHORUS			
					SALT	SLOUGH	NEAR	STEVINSON		BO
11/20/74 1200	5050 5050	13.0C 1200	8.0 7.6			.00003	DACTHAL	NONE	DETECTED	
05/21/75 1230	5050 5050	17 C 1300				.00004	UNKNOWN	.000475	DIAZINON	.00012 UNKNOWN
08/20/75 1100	5050 5050	23.0C 1100				.00034	UNKNOWN	.00001	DIAZINON	.00003 UNKNOWN
05/28/75 1400	5050 5050	24.0C 400	7.5 7.3	24.10		NONE	DETECTED	NONE	DETECTED	
05/29/75 0830	5050 5050	11.0C 30	10.0 7.0			NONE	DETECTED	.00002	UNKNOWN	
05/28/75 1200	5050 5050	21.0C 70	8.1 8.1			NONE	DETECTED	.000055	UNKNOWN	
11/21/74 0900	5050	13.0C 310	8.8 7.3	13.35		NONE	DETECTED	NONE	DETECTED	
01/21/75 1600	5001 5050	10 C 645	9.8 7.5	12.46	1	NONE	DETECTED			
05/01/75 1235	5001 5050	19 C 702	8.9 7.8	12.14 2510	1	NONE	DETECTED			
09/11/75 1410	5001 5050	22 C 471	7.9 7.8	12.16 2530	1	.00005	UNKNOWN			
05/28/75 1330	5050 5050	24.0C 500	9.0 7.9	17.53		.000025	DACTHAL	.00002	DIAZINON	.00001 PARATHION
11/20/74 1230	5050 5050	13.0C 1150	4.5 7.6			NONE	DETECTED	NONE	DETECTED	
05/21/75 1315	5050 5050	20 C 900	8.0			.00054	UNKNOWN	.00008	DIAZINON	.00005 UNKNOWN
05/29/75 0630	5050 5050	13.0C 32	11.0 8.4			NONE	DETECTED	.00005	UNKNOWN	
05/29/75 0930	5050 5050	12.0C 35	9.3 7.2			NONE	DETECTED	.000015	UNKNOWN	
05/28/75 0815	5050 5050	14.0C 50	11.1 7.2			NONE	DETECTED	.000025	UNKNOWN	
05/27/75 1600	5050 5050	14.0C 170	11.2 7.4	3.94		NONE	DETECTED	NONE	DETECTED	
05/27/75 1150	5050 5050	20.0C 115	9.8 8.0			NONE	DETECTED	.000025	UNKNOWN	
05/28/75 1000	5050 5050	12.5C 40	11.8 7.2	6.87		NONE	DETECTED	.00003	UNKNOWN	

APPENDIX E
GROUND WATER QUALITY DATA

INTRODUCTION

Appendix E summarizes the ground water quality data for the San Joaquin Valley for the 1975 water year (October 1, 1974, through September 30, 1975). These data were obtained from analyses of water samples from approximately 500 wells.

Laboratory analyses of ground water samples reported herein were performed in accordance with the 13th Edition of "Standard Methods for Examination of Water and Waste Water".

A complete description of the State Well Numbering System, used in this report to indicate the location of the wells sampled, is contained in Appendix C, "Ground Water Data", page 125. A 40-acre tract may contain a well that has not been assigned a state number or may have a well that is of a temporary nature. These are numbered in the 80 series; i.e., 15S/22E-27K80M.

TABLE E-1
MINERAL ANALYSES OF GROUND WATER

Abbreviations, Chemical Symbols, and Codes used
in this table are:

<u>Abbreviations</u>			
EC	Specific electrical conductance in micromhos at 25° Celsius	TEMP	Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)
NCH	Noncarbonate Hardness	TH	Total Hardness
SAR	Sodium Adsorption Ratio	TIME	Pacific Standard Time on a 24-hour clock
SUM	Summation of Analyzed Constituents	PH	Measure of acidity or alkalinity of water
TDS	Total Dissolved Solids		
REM	Remarks as follows:		
T	Indicates the TDS does <u>not</u> fall within 20 percent of the calculated SUM of the constituents.		
E	Indicates the TDS value is <u>not</u> within the range of 0.35 to 0.70 of the laboratory electrical conductivity.		
S	Indicates the anion sum and cation sum for a complete analysis are <u>not</u> within the prescribed tolerance of <u>±5</u> percent.		
C	Indicates the laboratory electrical conductivity divided by the EC-EPM factor (or if absent, 100), is <u>not</u> within 20 percent of the average of the cation sum and anion sum for a complete analysis.		
X	Indicates the field electrical conductivity and the laboratory electrical conductivity are <u>not</u> within 20 percent of each other.		

Chemical Symbols

B	Boron	K	Potassium
CA	Calcium	MG	Magnesium
CL	Chloride	NA	Sodium
CO ₃	Carbonate	NO ₃	Nitrate
F	Fluoride	SiO ₂	Silica
HCO ₃	Bicarbonate	SO ₄	Sulphate

Sampler (SAMP) and Laboratory (LAB) Codes

5050	Department of Water Resources
5121	Kern County Water Agency
5191	Agricultural Technical Services Company
5205	City of Delano
5617	Semitropic Water Storage District
5647	Tehachapi-Cummings Water District
5701	California Water Service Company
5802	Twining Laboratory - Fresno
5806	B. C. Laboratory

MINERAL ANALYSES OF GROUND WATER

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TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER																				
DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	FIELD FC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER					REMARKS
					PERCENT REACTANCE VALUE										MILLIGRAMS PER LITR					
					CA	MG	NA	K	CO3	MO3	SO4	CL	NO3	H	F	TDS SUM	TH NCH	SAR		
CENTRAL VALLEY SAN JOAQUIN VALLEY																				
05/20/75 1345	5050 5050	M 2	F 7.4	284 267	20 1.00	3.1 15	28 45	3.4 3	0 0	127 2.04	1.8 0.4	9.6 27	14.0 23	.00 2	--	147 144	71 0	1.4		
05/20/75 1400	5050 5050	M 1	F 7.4	350 350	20 1.13	11 38	26 13	4.6 3	0 0	144 2.16	5.4 11	27 17	14.0 23	.10 2	--	232 185	111 0	1.1	T	
05/20/75 0937	5050 5050	M 1	F 7.4	480 675	56 2.79	24 1.97	58 2.62	3.0 1	0 0	374 6.13	31 35	12 5	23.0 5	.00 2	--	397 391	240 0	1.6		
05/20/75 0800	5050 5050	M 2	F 7.4	360 357	20 1.42	17 38	24 20	0 2	0 0	187 2.74	0 2.1	10 6	9.4 12	.00 7	--	254 194	141 0	0.6	E T	
05/21/75 1230	5050 5050	M 1	F 7.4	330 286	22 1.10	12 37	18 26	3.2 3	0 0	154 2.56	5.9 12	6.6 12	4.1 19	.00 2	--	214 149	104 0	0.8	E T	
05/20/75 1444	5050 5050	M 1	F 7.4	244 242	18 1.0	15 34	2.8 27	0 3	0 0	116 1.90	1.8 1.4	7.9 22	10.0 16	.00 7	--	196 123	86 0	0.7	E T	
05/19/75 1740	5050 5050	M 1	F 7.4	94 91	7.6 4.3	4.4 10	2.1 7	2.3 0	0 0	43 1.0	4.2 1.3	0 2	0 1	.00 1	--	62 47	37 0	0.2	T	
05/21/75 1300	5050 5050	M 2	F 7.4	234 224	15 1.79	16 35	4.0 30	0 12	0 0	30 1.02	4.1 9.9	9.7 27	14.0 23	.00 2	--	169 119	70 0	0.8	E T	
05/19/75 1730	5050 5050	M 2	F 7.4	144 140	14.2 1.1	4.7 27	13 40	2.2 4	0 0	77 1.26	2.3 1.2	1.2 2	2.6 0.3	.00 2	--	144 71	40 0	0.9	E T	
05/19/75 1714	5050 5050	M 2	F 7.4	220 190	10 1.0	5.1 28	17 41	0 7	0 0	73 1.20	3.6 1.7	13 21	7.3 12	.00 7	--	174 97	46 0	1.1	E T	
05/19/75 1600	5050 5050	M 2	F 7.5	400 404	43 2.15	7.8 41	65 45	3.0 2	0 0	79 1.20	14 29	127 3.59	11.0 17	.00 3	--	419 300	139 75	2.0	T	
05/19/75 1445	5050 5050	M 2	F 7.4	214 202	13 1.05	5.7 47	15 45	0 16	0 0	76 1.23	3.4 3.08	17 24	5.6 8	.00 5	--	171 103	56 0	0.9	E T	
05/19/75 1700	5050 5050	M 1	F 7.6	45 41	2.4 1.2	1.0 10	12 65	3.2 10	0 0	41 1.05	2.3 0.05	2.0 1.06	4 0.1	.00 1	--	104 43	10 0	1.6	E T	
05/19/75 1630	5050 5050	M 2	F 7.4	400 380	22 1.10	4.5 38	19 29	5.4 5	0 0	122 2.00	6.6 14	21 59	10.0 16	.00 6	--	232 154	94 0	0.9	E T	
05/19/75 1300	5050 5050	M 2	F 7.4	400 264	21 1.05	13 1.17	13 47	0 0.2	0 0	134 2.28	15 31	5.4 15	7 0.1	.00 1	--	157 137	108 0	0.6	X	
10/17/74 1100	5050 5050	M 2	F 7.0	1760 1760	--	--	--	--	--	--	--	97 2.74	38.0 61	.70 --	--	562				
05/21/75 1200	5050 5050	M 2	F 7.4	1058 1060	46 4.79	46 4.11	57 2.48	1.2 1	0 0	343 5.82	152 3.16	46 1.44	54.0 47	.20 --	--	700 647	447 144	1.2		
05/21/75 1130	5050 5050	M 2	F 7.4	1466 1450	134 4.09	71 3.64	102 4.44	4.0 10	0 0	449 7.36	162 3.37	2.04 5.47	42.0 1.00	.40 --	--	1050 964	426 259	1.8		
05/21/75 0900	5050 5050	M 2	F 7.4	1014 1020	90 4.49	47 3.97	64 2.78	4.1 10	0 0	412 6.75	146 3.04	50 1.41	6.8 11	.40 --	--	635 611	420 81	1.4		
05/21/74 0940	5050 5050	M 2	F 7.4	410 410	63 3.14	41 35	62 3.37	3.4 26	0 0	313 5.42	155 3.23	24 9.8	6.8 10	.40 --	--	531 493	327 80	1.3		

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

MINERAL ANALYSES OF GROUNDWATER																				
DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	FIELD PC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER					MILLIGRAMS PER LITER					REMARKS
					CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	P	SI	TO	TH	SAR		
CENTRAL VALLEY SAN JOAQUIN VALLEY																				
05/22/75 0700	5050 S150	17 C	F	3900	205	147	485	8.8	0	530	854	640	15.0	2.20	--	2810	1120	6.3	E	
				7.9	3450	16.20	24	24	48	1	19	40	1			2810	1120		S	
05/22/75 1145	5150 S150	17 C	F	740	50	23	42	1.8	0	197	151	38	13.0	.40	--	489	240	1.7		
				7.9	710	2.89	1.49	2.70	.05	3.23	3.14	1.17	.21			489	240			
05/21/75 1350	5150 S150	17 C	F	1374	162	45	120	2.1	0	351	181	145	42.0	.70	--	914	439	2.5		
				14	1350	5.04	3.70	5.22	.05	5.75	7.77	4.09	.68			914	439			
05/21/75 1415	5150 S150	17 C	F	1244	76	54	92	2.4	0	308	171	134	35.0	.50	--	830	428	1.9	S	
				7.9	1350	3.79	4.77	4.00	.07	4.05	3.56	3.78	.58			830	428			
05/22/75 0915	5150 S150	17 C	F	1270	14	2.9	294	7.3	0	619	39	74	.4	.40	--	806	47	0	18.0	
				14	1240	.70	.24	12.15	.08	10.15	.81	2.45	.01			742	0			
05/22/75 0800	5150 S150	17 C	F	1224	24	6.7	235	3.4	0	504	46	122	.4	.30	--	744	100	0	10.2	
				14	1230	1.45	.35	10.22	.10	4.20	.90	3.44	.01			691	0		S	
05/22/75 0910	5150 S150	17 C	F	3406	74	4.6	600	7.2	0	614	110	752	.2	.60	--	1910	224	0	18.6	
				7.9	3370	3.04	.74	27.84	.18	10.18	2.29	21.21	.00			1896	0		S	
05/22/75 1105	5150 S150	17 C	F	3900	82	14	400	8.4	0	1490	132	535	.5	.90	--	2450	264	0	22.6	
				7.9	3950	4.09	1.15	30.54	.21	10.24	2.75	15.17	.01			2348	0			
05/22/75 1245	5150 S150	17 C	F	912	34	14	147	2.9	0	441	49	40	12.0	.10	--	592	165	0	5.0	
				14	910	1.05	1.32	6.39	.17	7.23	1.02	1.75	.19			531	0			
05/23/75 0825	5150 S150	17 C	F	408	47	16	16	8.5	0	251	22	6.4	38.0	.00	--	343	181	0	1.2	
				14	408	1.32	1.57	.22	.00	4.11	.40	.18	.41			297	0			
05/22/75 1350	5150 S150	17 C	F	1178	31	4.7	221	4.4	0	384	36	173	.3	.20	--	695	97	0	9.8	
				14	1200	1.55	.33	4.41	.11	6.13	.71	4.48	.00			658	0			
05/23/75 0730	5150 S150	17 C	F	859	63	14	114	6.0	0	418	38	70	12.0	.10	--	581	232	0	3.3	
				14	830	3.14	1.48	4.96	.15	4.85	.79	2.14	.19			533	0			
05/27/75 0810	5150 S150	17 C	F	184	12	3.4	18	1.6	0	65	18	4.0	17.0	.00	--	184	46	0	1.2	
				14	180	.30	.32	.78	.04	1.07	.37	.11	.27			106	0			
05/23/75 1010	5150 S150	17 C	F	420	30	14	13	1.9	0	192	20	7.4	37.0	.00	--	298	144	0	1.2	
				14	415	1.79	1.15	1.44	.05	3.15	.47	.21	.60			243	0			
05/27/75 0920	5150 S150	17 C	F	330	53	13	14	2.0	0	143	17	6.4	39.0	.00	--	262	136	0	0.5	
				14	325	1.05	1.07	.61	.05	2.34	.35	.18	.48			186	19			
05/27/75 1440	5150 S150	17 C	F	420	30	14	13	1.9	0	192	20	7.4	37.0	.00	--	298	144	0	1.2	
				14	415	1.79	1.15	1.44	.05	3.15	.47	.21	.60			243	0			
05/27/75 1030	5150 S150	17 C	F	212	16	6.0	14	1.3	0	107	8.6	5.0	6.5	.00	--	179	73	0	0.7	
				14	207	.60	.61	.03	.00	1.75	.18	.14	.10			112	0			
05/27/75 1000	5150 S150	17 C	F	450	40	21	25	3.3	0	284	11	2.5	4.2	.00	--	302	188	0	0.8	
				14	445	2.00	1.73	1.09	.08	4.45	.23	.07	.07			247	0			
05/27/75 0900	5150 S150	17 C	F	322	23	7.4	27	4.0	0	151	19	7.4	8.6	.00	--	242	88	0	1.3	
				14	305	1.15	.51	1.17	.24	2.47	.40	.21	.14			175	0			
05/27/75 0930	5150 S150	17 C	F	1074	43	45	85	3.5	0	608	37	34	30.0	.10	--	668	420	0	1.8	
				14	1050	4.64	3.78	3.70	.09	9.97	.77	1.11	.4			633	0			

MINERAL ANALYSES OF GROUND WATER

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TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER																								
DATE TIME	SAMPLE LAB	TEMP	FIELD LABORATORY PH	FC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				REMARKS
					CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	8	F	TDS	TH	SAR						
CENTRAL VALLEY SAN JOAQUIN VALLEY																								
09/11/75	5701	71	F	21	2.0	4.0	17	2.0	.4	.87	5.0	17	7.0	--	+1	138	66	0	0.9					
	5701	21	C	7.4	21A	1.10	.16	.74	.05	.01	1.43	.10	.48	.11	5	21.0	136							
03/03/75	5701	64	F	21	4.0	18	2.3	.8	.96	7.0	19	8.0	--	+1	159	80	2	0.9						
	5701	21	C	8.1	24C	1.30	.33	.78	.06	.03	1.57	.15	.54	.13	5	27.0	159							
09/16/75	5701	--	--	--	--	--	--	--	--	--	--	--	--	.10	--								5	
07/02/75	5701	71	F	21	1.0	17	1.7	1.3	.61	4.0	12	4.0	--	+1	98	36	0	1.3						
	5701	21	C	8.5	152	.60	.08	.74	.04	.04	1.00	.08	.34	.06	5	14.0	97							
05/27/75	5701	69	F	21	4.0	26	2.5	.8	1.13	8.0	25	13.0	--	+1	183	98	3	0.9						
	5701	21	C	8.1	29C	1.50	.33	.91	.08	.03	1.85	.17	.71	.21	5	29.0	182							
04/01/75	5701	67	F	14	4.0	28	3.0	.5	1.53	24	23	22.0	--	+0	249	130	3	1.1						
	5701	14	C	7.7	102	2.25	.33	1.22	.08	.02	2.51	.20	.65	.35	5	24.0	249							
03/03/75	5701	66	F	21	1.0	21	1.7	1.2	.73	7.0	14	11.0	--	+1	129	50	0	1.3						
	5701	21	C	8.4	19R	.90	.08	.91	.04	.04	1.20	.15	.49	.18	5	18.0	129							
05/22/75	5701	--	--	--	--	--	--	--	--	--	--	--	--	.06	--								5	
08/18/75	5701	71	F	21	2.0	3.0	21	2.5	.9	1.01	9.0	23	11.0	--	+1	165	84	0	1.0					
	5701	21	C	8.1	26A	1.40	.25	.91	.08	.03	1.46	.19	.65	.18	5	17.0	165							
04/01/75	5701	67	F	14	4.0	24	3.0	1.0	1.49	12	15	14.0	--	+0	241	140	16	0.9						
	5701	14	C	8.10	19A	2.20	.58	1.06	.08	.03	2.44	.25	.99	.23	5	27.0	240							
08/18/75	5701	71	F	21	1.0	19	1.5	.9	.59	4.0	12	8.0	--	+1	101	36	0	1.4						
	5701	21	C	8.4	149	.65	.08	.83	.04	.03	.97	.08	.34	.13	5	14.0	102							
10/07/74	5701	67	F	14	4.0	24	3.0	1.0	1.49	12	15	14.0	--	+1	248	173	18	0.6						
	5701	14	C	7.9	21A	2.74	.68	.74	.08	.03	2.31	.21	.91	.27	5	24.0	247							
05/29/75	5701	68	F	21	4.0	24	3.0	1.0	1.49	12	15	11.0	--	+1	205	144	9	0.5						
	5701	21	C	7.8	342	2.20	.66	.85	.04	.02	2.66	.23	.47	.18	5	18.0	204							
04/19/75	5701	71	F	21	2.0	3.0	16	1.0	.3	1.17	8.0	11	7.0	--	+1	152	88	0	0.7					
	5701	21	C	7.5	241	1.50	.25	.70	.03	.01	1.92	.17	.31	.11	5	14.0	152							
07/03/75	5701	67	F	14	4.0	24	3.0	.9	.86	4.0	10	4.0	--	+1	112	60	0	0.8						
	5701	14	C	8.2	18A	1.10	.08	.61	.03	.03	1.41	.08	.28	.06	5	12.0	111							
04/16/75	5701	68	F	14	4.0	24	3.0	1.0	1.49	12	15	14.0	--	+1	142	78	0	0.7						
	5701	14	C	8.2	221	1.40	.16	.85	.03	.04	1.61	.12	.37	.13	5	19.0	141							
05/29/75	5701	67	F	14	4.0	24	3.0	1.0	1.49	12	15	14.0	--	+1	141	86	0	0.7						
	5701	14	C	7.9	240	1.55	.16	.81	.04	.02	1.82	.12	.31	.08	5	15.0	140							
01/17/74	5701	65	F	14	4.0	24	3.0	1.0	1.49	12	15	14.0	--	+1	201	140	12	0.5						
	5701	14	C	7.7	324	2.30	.49	.67	.03	.02	2.54	.21	.37	.19	5	24.0	202							
10/07/74	5701	67	F	14	4.0	24	3.0	1.0	1.49	12	15	14.0	--	+1	174	115	3	0.5						
	5701	14	C	7.9	285	1.95	.43	.52	.03	.02	2.21	.17	.25	.15	5	24.0	173							
04/16/75	5701	65	F	14	4.0	24	3.0	1.0	1.49	12	15	14.0	--	+1	167	106	5	0.3						
	5701	14	C	7.4	236	1.70	.41	.30	.02	.01	2.00	.15	.23	.11	5	34.0	167						E	
10/08/74	5701	66	F	14	4.0	24	3.0	1.0	1.49	12	15	14.0	--	+1	164	108	9	0.3						
	5701	14	C	7.2	237	1.60	.58	.40	.02	.00	2.00	.17	.17	.11	5	36.0	164							
02/04/75	5701	66	F	14	4.0	24	3.0	1.0	1.49	12	15	14.0	--	+1	158	98	7	0.3						
	5701	14	C	7.2	227	1.60	.33	.40	.02	.00	1.80	.17	.20	.11	5	38.0	158							

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER					MILLIGRAMS PER LITER					REMARKS
					CA	MG	NA	K	CO3	PERCENT REACTANCE VALUE				B	F	TDS	YM	SAR							
										SO4	CL	NO3	S102												
																			CL	NO3	SUM	NCH			
CENTRAL VALLEY SAN JOAQUIN VALLEY																									
06/06/75	5701	18C/25E-14702	M			--	--	--	--	--	--	--	--	--	--	--	--	--	--						
04/17/75	5701	18C/25E-19401	M	6A F 19 C 8.1	193	24	2.0	13	1.1	.9	103	4.0	6.0	5.0	--	.0	125	70	0	0.7					
	5701				1.20	.61	.16	.67	.03	.03	1.69	.10	.17	.08	18.0	126	0								
02/25/75	5701	18C/25E-20801	M	6A F 19 C 8.1	193	24	2.0	13	1.1	.9	157	4.0	6.0	10.0	--	.1	193	136	4	0.4					
	5701				1.95	.61	.16	.67	.03	.04	2.57	.10	.23	.16	26.0	192	4								
09/29/75	5701	18C/25E-21001	M	6A F 16 C 7.2	181	22	2.0	6.0	.7	.1	75	7.0	2.0	7.0	--	.1	106	64	2	0.3					
	5701				1.10	.16	.26	.02	.00	.23	.15	.06	.11		23.0	107									
09/02/75	5701	18C/25E-27401	M	6A F 18 C 8.3	183	23	2.0	11	1.0	1.2	88	5.0	5.0	6.0	--	.1	115	66	0	0.6					
	5701				1.15	.63	.16	.67	.03	.04	1.44	.10	.14	.10	18.0	115	0								
09/02/75	5701	18C/25E-27901	M	6A F 18 C 8.4	184	23	2.0	17	1.0	1.4	82	6.0	6.0	4.0	--	.1	107	66	0	1.1					
	5701				1.05	.63	.16	.67	.03	.05	1.34	.12	.17	.06	14.0	108									
04/16/75	5701	18C/25E-28001	M	6A F 18 C 8.1	184	23	2.0	10	1.0	.8	98	5.0	5.0	4.0	--	.1	122	74	0	0.5					
	5701				1.30	.67	.16	.64	.03	.03	1.61	.10	.14	.08	20.0	122	0								
03/21/75	5701	18C/25E-28101	M	6A F 16 C 7.5	254	34	6.0	11	1.1	.3	131	8.0	8.0	10.0	--	.1	171	110	2	0.5					
	5701				1.74	.63	.16	.64	.03	.01	2.15	.17	.23	.16	28.0	171									
05/29/75	5701	18C/25E-29301	M	6A F 18 C 7.9	182	24	2.0	11	1.3	.5	97	5.0	2.0	2.0	--	.1	108	64	0	0.6					
	5701				1.20	.67	.16	.64	.03	.02	1.59	.10	.16	.03	15.0	109	0								
02/04/75	5701	18C/25E-29001	M	6A F 16 C 7.5	159	20	3.0	8.0	.6	.2	75	6.0	6.0	4.0	--	.1	105	64	1	0.4					
	5701				1.00	.62	.15	.22	.1	1	77	6	11		20.0	105									
02/04/75	5701	18C/25E-29401	M	6A F 18 C 7.7	226	32	3.0	10	1.0	.4	112	7.0	6.0	8.0	--	.1	148	92	0	0.5					
	5701				1.60	.64	.11	.25	.34	.03	1.84	.15	.17	.13	26.0	148									
03/21/75	5701	18C/25E-30F01	M	6A F 19 C 8.2	174	26	2.0	13	1.1	1.9	93	4.0	5.0	3.0	--	.1	113	62	0	0.7					
	5701				1.54	.69	.16	.67	.03	.03	1.62	.10	.14	.05	16.0	114	0								
10/07/74	5701	18C/25E-30801	M	6A F 19 C 7.9	198	35	6.0	15	1.6	.8	157	17	25	18.0	--	.1	241	162	32	0.5					
	5701				2.74	.70	.13	.49	.64	.03	2.57	.35	.71	.29	25.0	241									
09/02/75	5701	18C/25E-30801	M	6A F 19 C 7.9	198	35	6.0	15	1.6	.8	155	19	27	14.0	--	.1	244	168	31	0.5					
	5701				2.74	.73	.13	.49	.64	.03	2.76	.40	.76	.23	22.0	244									
05/29/75	5701	18C/25E-30802	M	6A F 19 C 7.7	269	35	3.0	14	1.6	.4	126	10	11	6.0	--	.0	162	102	0	0.6					
	5701				1.75	.66	.16	.25	.35	.01	2.17	.21	.11	.10	17.0	160									
02/04/75	5701	18C/25E-31801	M	6A F 18 C 7.6	228	30	2.0	12	1.1	.3	162	8.0	10	8.0	--	.1	141	86	0	0.6					
	5701				1.50	.60	.16	.67	.03	.03	1.69	.10	.14	.13	18.0	140									
04/17/75	5701	18C/25E-31401	M			--	--	--	--	--	--	--	--	--	.00	--									
09/02/75	5701	18C/25E-31403	M	6A F 19 C 7.8	357	50	7.0	13	1.1	.6	150	15	26	6.0	--	.1	216	152	30	0.5					
	5701				2.54	.80	.16	.67	.03	.02	2.46	.31	.73	.13	22.0	216									
09/02/75	5701	18C/25E-31801	M	6A F 19 C 8.1	274	32	2.0	11	1.1	.9	108	4.0	10	6.0	--	.1	136	88	0	0.5					
	5701				1.70	.60	.16	.64	.03	.03	1.77	.12	.28	.10	14.0	136									
02/04/75	5701	18C/25E-31801	M	6A F 19 C 7.9	192	26	2.0	12	1.1	.5	97	4.0	7.0	3.0	--	.1	119	70	0	0.6					
	5701				1.30	.67	.16	.67	.03	.02	1.82	.08	.20	.03	15.0	118	0								
03/19/75	5701	18C/25E-31401	M	6A F 19 C 7.8	218	29	2.0	14	1.3	.9	108	4.0	6.0	6.0	--	.0	139	78	0	0.7					
	5701				1.49	.67	.16	.64	.03	.03	1.77	.12	.23	.10	14.0	138	0								

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLE LAB	TEMP	FIELD LABORATORY LOC	MINERAL ANALYSES IN MILLIGRAMS PER LITER										MILLIGRAMS PER LITER				TH NCH	SAR	REM
				MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE										MILLIGRAMS PER LITER						
				CA	MG	NA	K	CO3	MO3	CL	NO3	8	5102	105	104					
CENTRAL VALLEY SAN JOAQUIN VALLEY																				
05/29/75	5701	65 F	18 C 7.0	202	1.40	28	3.0	10	1.3	.6	1.0	4.0	5.0	3.0	--	+1	125	82	0	0.5
	5701	65 F	18 C 7.0	202	1.40	28	3.0	10	1.3	.6	1.0	4.0	5.0	3.0	--	+1	125	82	0	0.5
05/29/75	5701	65 F	18 C 7.4	209	1.50	30	2.0	9.0	1.3	.6	1.1	4.0	5.0	3.0	--	+1	129	84	0	0.4
	5701	65 F	18 C 7.4	209	1.50	30	2.0	9.0	1.3	.6	1.1	4.0	5.0	3.0	--	+1	129	84	0	0.4
04/18/75	5701	65 F	19 C 7.3	274	1.40	37	6.0	11	.8	.2	1.1	13	11	18.0	--	+1	188	116	19	0.4
	5701	65 F	19 C 7.3	274	1.40	37	6.0	11	.8	.2	1.1	13	11	18.0	--	+1	188	116	19	0.4
09/19/75	5701	65 F	19 C 7.3	274	1.40	37	6.0	11	.8	.2	1.1	13	11	18.0	--	+1	188	116	19	0.4
07/03/75	5701	65 F	19 C 7.4	221	1.35	27	4.0	12	1.0	.4	1.0	4.0	9.0	9.0	--	+1	140	86	0	0.6
	5701	65 F	19 C 7.4	221	1.35	27	4.0	12	1.0	.4	1.0	4.0	9.0	9.0	--	+1	140	86	0	0.6
07/03/75	5701	65 F	19 C 7.8	429	3.04	62	6.0	14	1.0	.7	1.72	14	30	17.0	--	+1	249	180	37	0.5
	5701	65 F	19 C 7.8	429	3.04	62	6.0	14	1.0	.7	1.72	14	30	17.0	--	+1	249	180	37	0.5
04/16/75	5701	65 F	19 C 7.4	188	2.54	54	3.0	14	1.3	.8	1.18	7.0	44	8.0	--	+1	221	148	49	0.5
	5701	65 F	19 C 7.4	188	2.54	54	3.0	14	1.3	.8	1.18	7.0	44	8.0	--	+1	221	148	49	0.5
09/02/75	5701	65 F	19 C 7.4	114	2.30	46	3.0	13	.4	.7	1.35	10	14	21.0	--	+1	195	128	16	0.5
	5701	65 F	19 C 7.4	114	2.30	46	3.0	13	.4	.7	1.35	10	14	21.0	--	+1	195	128	16	0.5
10/07/74	5701	65 F	19 C 7.4	210	1.27	29	1.0	11	1.2	.7	1.06	6.0	5.0	5.0	--	+1	131	79	0	0.5
	5701	65 F	19 C 7.4	210	1.27	29	1.0	11	1.2	.7	1.06	6.0	5.0	5.0	--	+1	131	79	0	0.5
10/07/74	5701	65 F	19 C 7.4	210	1.27	29	1.0	11	1.2	.7	1.06	6.0	5.0	5.0	--	+1	131	79	0	0.5
07/03/75	5701	65 F	19 C 7.4	208	1.50	30	1.0	11	1.3	.9	1.1	4.0	9.0	6.0	--	+1	131	82	0	0.5
	5701	65 F	19 C 7.4	208	1.50	30	1.0	11	1.3	.9	1.1	4.0	9.0	6.0	--	+1	131	82	0	0.5
07/03/75	5701	65 F	19 C 7.4	174	1.14	22	.0	14	1.2	.9	1.1	4.0	9.0	5.0	--	+1	109	56	0	0.8
	5701	65 F	19 C 7.4	174	1.14	22	.0	14	1.2	.9	1.1	4.0	9.0	5.0	--	+1	109	56	0	0.8
07/03/75	5701	65 F	19 C 7.4	278	1.40	38	2.0	13	1.2	.5	89	5.0	34	7.0	--	+1	156	102	29	0.6
	5701	65 F	19 C 7.4	278	1.40	38	2.0	13	1.2	.5	89	5.0	34	7.0	--	+1	156	102	29	0.6
04/16/75	5701	65 F	19 C 7.4	347	2.32	47	5.0	16	1.3	.8	145	14	22	13.0	--	+1	216	140	18	0.6
	5701	65 F	19 C 7.4	347	2.32	47	5.0	16	1.3	.8	145	14	22	13.0	--	+1	216	140	18	0.6
10/07/74	5701	65 F	19 C 7.4	197	1.25	25	1.0	14	.9	.6	89	4.0	7.0	10.0	--	+1	128	67	0	0.7
	5701	65 F	19 C 7.4	197	1.25	25	1.0	14	.9	.6	89	4.0	7.0	10.0	--	+1	128	67	0	0.7
02/04/75	5701	65 F	19 C 7.4	208	1.50	30	1.0	11	1.3	.9	1.1	4.0	9.0	6.0	--	+1	131	82	0	0.5
	5701	65 F	19 C 7.4	208	1.50	30	1.0	11	1.3	.9	1.1	4.0	9.0	6.0	--	+1	131	82	0	0.5
04/17/75	5701	65 F	19 C 7.4	208	1.50	30	1.0	11	1.3	.9	1.1	4.0	9.0	6.0	--	+1	131	82	0	0.5
	5701	65 F	19 C 7.4	208	1.50	30	1.0	11	1.3	.9	1.1	4.0	9.0	6.0	--	+1	131	82	0	0.5
06/09/75	5121	7.7 F	7.4	420	11	1.3	.85	3.9	0	2.0	5.0	44	7.5		+49	--	262	33	0	6.5
	5121	7.7 F	7.4	420	11	1.3	.85	3.9	0	2.0	5.0	44	7.5		+49	--	262	33	0	6.5
05/15/75	5121	7.7 F	7.4	150	2.0	.0	30	1.0	1.2	.5	59	5.0	2.0	.5	+01	--	80	7	0	4.9
	5121	7.7 F	7.4	150	2.0	.0	30	1.0	1.2	.5	59	5.0	2.0	.5	+01	--	80	7	0	4.9
06/09/75	5121	7.7 F	7.4	190	1.35	.43	10.61	.6	.10	1.33	2.08	7.53	.01		+59	--	829	84	18	11.6
	5121	7.7 F	7.4	190	1.35	.43	10.61	.6	.10	1.33	2.08	7.53	.01		+59	--	829	84	18	11.6
05/19/75	5121	7.7 F	7.4	190	1.35	.43	10.61	.6	.10	1.33	2.08	7.53	.01		+59	--	829	84	18	11.6
	5121	7.7 F	7.4	190	1.35	.43	10.61	.6	.10	1.33	2.08	7.53	.01		+59	--	829	84	18	11.6

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					REM
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	A	F	TDS	TH			
																		SUM	SUM	
CENTRAL VALLEY SAN JOAQUIN VALLEY																				
06/06/75	5121 5006	25C/23E-10001	M	76.0F 25.5C	8.4	580	8.40 4.07	.5	120	1.4	12	60	5.0	151	.5	.24	--	325	22	11.1
02/03/75	5617 5006	25C/23E-12002	M	76 F 24 C	9.3	170	1.9 .04 5	.0	37	--	37	10	9.0	3.2	1.7	.05	--	96	5	7.4
12/21/74	5617 5006	25C/23E-16000	M	60 F 21 C	7.8	770	3.0 1.50 20	.2	139	--	0	.66	52	20.7	1.7	.02	--	451	76	7.0
12/27/74	5617 5006	25C/23E-16000	M	71 F 22 C	7.3	240	1.9 .04 8	.0	48	--	0	.40	15	37	.9	.03	--	134	10	6.7
03/27/75	5617 5006	25C/23E-24001	M	75 F 24 C	9.1	290	4.3 .21 8	.0	58	--	41	10	5.0	55	.5	.05	--	179	11	7.7
05/15/75	5121 5006	25C/23E-24001	M	76 F 26 C	9.1	300	5.0 .25 8	.0	62	1.1	23	37	5.0	53	.5	.01	--	168	13	7.6
05/15/75	5121 5006	25C/23E-26000	M	76 F 26 C	9.0	200	3.0 .15 7	.0	44	1.0	36	24	5.0	13	.5	.01	--	115	8	7.0
04/08/75	5617 5006	25C/23E-27001	M	73 F 23 C	9.0	180	.1 .01 1	.1	43	--	19	49	10	8.9	.5	.14	--	108	1	23.0
05/09/75	5121 5006	25C/23E-27001	M	74 F 26 C	7.1	1240	.99 .44 39	.4	172	2.6	0	27	111	344	2.1	.01	--	745	249	4.7
03/27/75	5617 5006	25C/23E-33001	M	75 F 24 C	8.5	450	2.9 1.20 69	.1	72	--	43	22	44	30	2.5	.03	--	263	61	4.0
05/09/75	5121 5006	25C/23E-33001	M	76 F 24 C	7.3	4340	1020 .56 61	.6	740	9.0	0	31	584	2520	6.2	.12	--	4902	2578	6.3
04/08/75	5617 5006	25C/24E-35001	M	74 F 26 C	9.7	180	.1 .01 1	.1	61	--	20	47	5.0	12	.5	.18	--	101	1	21.9
11/26/74	5617 5006	25C/24E-06002	M	73 F 23 C	8.5	540	21 1.05 20	.5	97	--	9.3	46	81	89	4.5	.12	--	327	65	5.7
05/09/75	5121 5006	25C/24E-10001	M	74 F 23 C	7.7	300	.16 .01 27	.1	48	1.4	0	70	36	35	2.1	.01	--	174	40	3.3
03/26/75	5617 5006	25C/24E-11001	M	75 F 24 C	7.8	500	.44 .06 67	.7	56	--	0	80	57	78	5.0	.03	--	284	113	2.3
06/09/75	5121 5191	25C/24E-12001	M	76 F 7.6	110		9.0 .45 45	.8	10	1.2	0	67	1.0	1.7	.4	.13	--	58	26	0.9
06/09/75	5121 5191	25C/24E-13002	M	76 F 7.1	1400	284.44 84	4.7 .39 1	117 5.09 15	1.5 .09 0	0	0	67	7.0	6.2	19.0	.05	--	2110	1443	1.3
05/09/75	5121 5006	25C/24E-19002	M	75 F 24 C	7.9	1020	.67 3.34 36	.3	164	2.1	0	74	154	197	34.3	.01	--	656	169	5.5
12/02/74	5617 5006	25C/24E-22001	M	76 F 24 C	8.4	360	.11 .07 17	.0	66	--	6.0	26	63	47	11.6	.03	--	221	29	5.4
12/02/74	5617 5006	25C/24E-23000	M	73 F 23 C	7.3	570	.48 2.30 41	.3	75	--	0	.70	1.96	2.51	.46	.02	--	357	116	3.0

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLE LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN								MILLIGRAMS PER LITER								REM	
				CA	MG	NA	K	PERCENT				R	F	TDS SUM	TH NCH	SAR					
								CO3	HC03	SO4	CL										
CENTRAL VALLEY SAN JOAQUIN VALLEY																					
05/09/75	5121 5006	25C/24E-27H03	M	74 F 23 C	7.2	940		110 4.49 58	1.5 12 1	AR 3.43 0	2.4 16 1	0 0 1	43 70 7	195 4.06 43	130 3.67 34	6.7 1.09 11	.01 33.0	615 649	281 246	2.3	
12/12/74	5017 5006	25C/24E-27H03	M	76 F 24 C	7.4	210		18 50 22	.1 0.1 1	41 1.78 76	-- 0 0	0 0 0	57 93 48	43 98 39	15 4.3 14	3.5 0 3	.03 --	142 141	26 0	3.5	
06/06/75	5121 5006	25C/24E-27H03	M	75 F 24 C	8.4	290		13 23	.2 0.2	50 2.18	.4 0.1	12 15	23 13	67 1.39	18 5.1	8.5 14	.07 14.0	142 200	33 0	3.8	
05/09/75	5121 5006	25C/24E-28H03	M	71 F 21 C	7.4	2900		460 22.45 21	3.2 26 1	117 5.19 18	4.7 12 0	0 0 0	52 105	468 9.74	621 17.57	12.4 27	.04 37.0	1718 1755	1163 1119	1.5	
04/08/75	5017 5006	25C/24E-30H03	M	74 F 27 C	4.4	200		.1 0.0	.1 0.1	45 1.96	-- 1	20 99	48 67	10 79	11 21	.9 3.01	.12 --	113 112	0	24.1	
05/15/75	5121 5006	25C/24E-35E03	M	73 F 23 C	7.4	740		84 4.14 34	.4 0.3	70 3.44	2.3 0.0	0 0	45 74	202 4.21	41 2.19	10.2 4	.01 24.0	501 529	212 174	2.4	
06/06/75	5121 5006	25C/24E-35H03	M	76 F 24 C	8.4	250		7.3 30 17	.1 0.1	41 1.78	.7 0.2	13 45	24 43	41 85	18 5.2	11.3 18	.07 21.0	152 157	19 0	4.1	
06/06/75	5121 5006	25C/24E-36E03	M	77 F 24 C	7.5	330		26 1.00 26	.1 0.1	44 2.78	1.3 0.0	0 0	32 52	64 1.33	42 1.77	12.1 20	.06 14.0	240 256	51 25	3.9	
06/09/75	5121 5191	25C/25E-04C03	M	7.4	400			37 1.35 47	0.3 1.52 1	14 1.48	4.4 11	0 0	141 2.31	18 37	64 11.05	27.5 44	.05 --	242 241	118 3	1.4	
06/09/75	5121 5191	25C/25E-21J03	M	7.4	2300			262 13.07 67	14 1.15	170 7.40	6.0 15	0 0	248 3.41	750 15.62	100 24.1	8.9 13	.10 --	1480 1473	712 541	2.8	
06/09/75	5121 5191	25C/26E-04C02	M	7.4	530			27 1.39 25	.4 0.3	40 3.4	6.3 16	0 0	195 3.20	40 59	33 15	27.5 44	.09 --	316 315	86 0	3.8	
06/08/75	5121 5191	25C/18E-18F03	M	7.4	2200			51 2.54 12	115 9.44	217 9.44	6.1 16	0 0	248 4.18	580 12.08	174 49.1	8.0 13	2.50 --	1280 1276	601 397	3.9	
06/09/75	5121 5191	25C/18E-19H03	M	7.4	6000			234 11.40 17	300 24.57	710 30.49	14 37	0 0	208 3.41	1760 36.64	574 15.16	151 24.4	3.00 --	3810 3805	1409 1638	7.3	
06/09/75	5121 5191	25C/21E-14H03	M	7.7	6400			310 15.47 21	174 14.72	970 42.20	12 31	0 0	470 7.70	2200 46.00	842 18.31	2.1 05	3.40 --	4770 4771	1511 1125	10.9	
03/31/75	5017 5006	25C/22E-18G02	M	7.4	340			4.3 2.1 0	.3 0.2	70 3.05	-- 1	12 93	37 40	42 87	50 14.3	.4 0.1	.23 --	200 198	11 0	8.8	
04/11/75	5030 1360	25C/22E-21J03	M	7.7	1130			1050 4.04 50	114 7.76 7	188 4.70 42	7.5 14	0 0	121 1.94	287 6.98	110 3.10	.1 0.0	.60 --	758 695	320 221	2.6	
06/09/75	5121 5191	25C/22E-27H03	M	7.7	2900			130 6.79 27	2.7 22	410 17.44	4.4 11	0 0	74 1.21	340 7.08	650 14.31	.9 0.1	.65 --	1580 1581	351 290	9.5	
06/18/75	5121 5006	25C/23E-02J03	M	76 F 26 C	9.4	181		140 6.04 3	.0 0.0	30 1.70	.4 0.1	25 48	32 52	4.0 10	8.1 23	2.8 0.6	.05 21.0	98 118	3 0	10.7	
02/03/75	5017 5006	25C/23E-04J03	M	71 F 22 C	7.4	1998		242 10.39 61	.7 0.6	179 7.72 30	-- 0	0 0	29 48	145 3.02	583 16.45	7.1 11	.02 --	1177 1171	608 583	3.2	
01/08/75	5017 5006	25C/23E-38D03	M	72 F 22 C	8.4	236		4.3 2.1 0	.1 0.1	44 1.91 90	-- 0	13 23	24 45	35 8.1	13 73	.4 19	.03 --	130 124	11 0	5.7	

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER																													
DATE TIME	SAMPLER LAB		TEMP	FIELD LABORATORY PH	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER										MILLIGRAMS PER LITER				
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3		5102	TOS SUM	TH NCM	5AR											
CENTRAL VALLEY SAN JOAQUIN VALLEY																													
04/28/75	5121 5006	26C/23E-07000	M	71 F 22 C	7.9	6.40	24 1.45 30	1.08 4.70 72	1.5 0.04 1	0	70 1.15 18	103 214 33	112 3.16 19	2.1 0.03	.01 16.0	--	394 410	88 30	5.0										
01/07/75	5617 5006	24C/23E-09000	M	71 F 22 C	7.2	5.80	43 1.12 38	1.0 3.48 62	--	0	37 11	50 18	140 70	3.5 0.06	.03	--	338 336	108 78	3.4										
01/09/75	5617 5006	24C/23E-13000	M	77 F 25 C	9.1	160	2.5 1.2 7	0 1.42 93	--	20	21 41	27 34	1.8 3.6	.4 0.01	.02	--	98 98	6 0	6.1										
02/03/75	5617 5006	26C/23E-17000	M	77 F 25 C	9.1	240	14 1.70 20	1 1.78 71	--	20	12 27	48 20	19 1.06	4.5 3.8 0.07	.03	--	155 154	36 0	3.0										
01/09/75	5617 5006	26C/23E-14000	M	77 F 24 C	8.1	290	17 1.80 28	2 2.18 71	--	1.8 0.6	43 2	59 1.23	36 3.45	3.5 0.22	.05	--	190 189	44 6	3.3										
04/08/75	5617 5006	26C/23E-17000	M	75 F 24 C	9.1	200	.1 1.01 1	1 1.99	--	25	14 12	14 15	21 31	.9 0.1	.12	--	116 115	0	2.4										
01/17/75	5617 5006	26C/23E-26000	M	74 F 23 C		420	73 3.04 57	6 1.05 1.40	--	0	37 10	73 25	136 3.45	13.4 0.22	.05	--	373 371	185 154	1.8										
01/17/75	5617 5006	26C/23E-25000	M	76 F 24 C	8.9	160	3.3 1.18 19	0 1.62 90	--	13	18 27	24 37	2.5 3.0	1.8 0.03	.03	--	100 99	8 0	5.3										
03/26/75	5617 5006	26C/23E-25000	M	77 F 25 C	9.2	160	2.4 1.2 0	0 1.31 92	--	25	10 58	9.0 11	7.4 2.1	3.3 0.05	.03	--	84 83	6 0	5.3										
01/18/75	5617 5006	26C/23E-27000	M	74 F 23 C	8.0	240	6.4 1.32 14	0 1.06 86	--	1.8 0.6	44 3	40 71	23 36	.4 0.1	.02	--	140 139	16 0	4.9										
03/27/75	5617 5006	26C/23E-29000	M	76 F 24 C	9.3	180	2.0 1.0 0	0 1.57 94	--	20	26 57	6.0 4.3	6.7 1.0	1.7 0.03	.05	--	93 94	5 0	7.0										
03/27/75	5617 5006	26C/23E-32000	M	73 F 23 C	7.7	3800	250 12.40 35	2.2 2.2 1.64	--	0	52 18	870 111	421 17.53	11.6 0.51	.28	--	2391 2321	434 591	9.0										
01/20/75	5617 5006	24C/23E-34000	M	76 F 24 C	8.8	230	6.0 1.34 15	0 1.87 63	--	23	19 35	33 14	1.4 2.6	2.6 0.04	.04	--	133 132	17 0	4.5										
01/20/75	5617 5006	26C/23E-36000	M	74 F 23 C	8.2	260	10 1.53 14	0 2.31 81	--	1.8 0.6	41 2	69 21	23 1.44	1.8 0.03	.02	--	181 180	27 0	4.5										
06/11/75	5121 5006	26C/23E-35000	M	75 F 24 C	8.5	430	29 1.5 34	1 2.74 65	--	24 0.2	25 7	93 1.74	52 1.48	6.5 0.10	.04	--	286 281	73 39	3.2										
01/20/75	5617 5006	24C/23E-36000	M	74 F 24 C	8.9	200	6.4 1.34 10	0 1.74 84	--	10 37	37 16	39 29	9.9 13	3.6 0.06	.03	--	129 128	17 0	4.2										
06/06/75	5121 5006	24C/24E-02000	M	75 F 24 C	8.7	200	4.4 1.2 13	1 1.65 86	--	48 1	24 25	30 39	9.9 12	8.5 0.14	.04	--	118 140	13 0	4.7										
02/03/75	5617 5006	26C/24E-02000	M	76 F 24 C	7.6	170	6.5 1.32 14	1 1.19 81	--	0	59 95	22 26	9.6 1.7	3.5 0.06	.03	--	104 103	17 0	3.4										
12/19/74	5617 5006	26C/24E-05000	M	70 F 21 C	7.2	540	50 2.50 43	3 3.05 55	--	0	42 12	170 63	42 21	14.3 4.4	.05	--	370 367	126 92	2.7										
12/19/74	5617 5006	26C/24E-05000	M	73 F 23 C	8.4	170	5.0 1.25 20	0 1.47 85	--	20 79	48 65	31 14	3.6 1.6	0.06	.03	--	111 110	13 0	4.4										

TABLE E-1 (Continued)

		MINERAL ANALYSES OF GROUND WATER															MILLIGRAMS PER LITER					MILLIGRAMS PER LITER					
DATE TIME	SAMPLE LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										PERCENT REACTANCE VALUE										REMARKS			
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3		R	F	TDS SUM	TH NCH	SAR									
CENTRAL VALLEY SAN JOAQUIN VALLEY																											
01/10/75	26K/24E-07HR0 S017 S006	M 77 F 25 C	7.8	150	2.4 1.2	.0 .00	30 1.31	92	0	75 87	6.0 9	1.8 1	.9 1	.04	--	79 78	6 0	5.3									
06/09/75	26K/24E-10P01 S121 S191	M A.6	200	15 7.5	.1 .01	40 1.74	1.5 .04	13 2	54 21	23 43	8.6 23	.9 12	.16	--	129 129	38 0	2.8	S									
01/13/75	26K/24E-10P00 S017 S006	M 76 F 24 C	8.7	150	3.2 1.0	.0 .00	33 1.44	-- 90	7.8 26	43 16	26 43	2.8 .70	2.7 .54	.02	--	97 97	8 0	5.1									
06/09/75	26K/24E-12P01 S121 S191	M 4.0	230	15 7.5	.5 .2	36 1.67	1.0 .03	33 1.10	40 25	24 19	8.2 4	6.6 .11	.18	--	145 144	40 0	2.5	S									
06/09/75	26K/24E-12H01 S121 S191	M 8.1	240	7.0 3.5	.3 .02	37 1.61	2.3 .06	0 3	101 1.66	20 71	6.2 18	6.2 .17	.24	--	130 129	19 0	3.7	S									
01/13/75	26K/24E-13H01 S017 S006	M 76 F 24 C	8.4	180	6.0 3.0	.2 .02	35 1.52	-- 83	5.1 .17	93 87	30 33	4.6 .87	4.5 .44	.03	--	112 111	14 0	3.8									
01/10/75	26K/24E-15N00 S017 S006	M 71 F 22 C	7.7	250	19 9.6	.4 .03	35 1.52	-- 61	0 1.05	64 41	42 34	15 17	11.2 7	.08	--	156 155	50 0	2.2									
01/10/75	26K/24E-16J07 S017 S006	M 77 F 25 C	8.2	140	5.4 2.7	.0 .00	30 1.31	-- 83	0 1.05	22 36	5.0 10	3.5 1.0	4.3 1.07	.03	--	89 59	14 0	3.6	T								
01/10/75	26K/24E-16P00 S017 S006	M 75 F 24 C	7.8	140	2.7 1.3	.0 .00	28 1.22	-- 90	0 1.20	73 86	5.0 7	2.5 .10	1.7 .07	.05	--	75 76	7 0	4.7									
01/10/75	26K/24E-16N02 S017 S006	M 8.1	150	3.4 1.4	.1 .01	39 1.26	-- 86	0 1.21	74 82	5.0 7	4.6 .13	2.6 .04	.07	--	81 82	10 0	4.0										
01/10/75	26K/24E-17H00 S017 S006	M 76 F 24 C	8.4	150	4.3 1.4	.0 .00	30 1.31	-- 86	9.9 .33	52 85	6.0 12	2.6 .18	.02	--	85 85	11 0	4.0										
01/10/75	26K/24E-18H00 S017 S006	M 77 F 25 C	8.2	150	2.1 1.0	.0 .00	33 1.44	-- 94	4.2 .14	58 95	21 61	1.1 .03	.9 .01	.02	--	92 91	5 0	6.3									
01/15/75	26K/24E-19H00 S017 S006	M 77 F 25 C	8.7	190	8.0 4.0	.1 .01	32 1.39	-- 77	12 .43	33 54	14 29	4.3 .50	.07	.02	--	107 105	21 0	3.1									
01/15/75	26K/24E-20C00 S017 S006	M 77 F 25 C	8.6	150	3.8 1.9	.1 .01	30 1.31	-- 87	10 .34	43 70	7.0 15	2.6 .26	.04	.05	--	85 84	10 0	4.1									
01/14/75	26K/24E-21H00 S017 S006	M 77 F 25 C	8.7	130	2.8 1.4	.0 .00	28 1.22	-- 90	15 .51	38 62	7.0 15	2.1 .11	2.6 .04	.01	--	77 76	7 0	4.6									
01/14/75	26K/24E-21H00 S017 S006	M 76 F 24 C	8.3	130	3.3 1.8	.0 .00	27 1.17	-- 88	8.7 .29	56 92	7.0 15	1.8 .05	2.6 .04	.03	--	76 78	8 0	4.1									
01/14/75	26K/24E-22F00 S017 S006	M 75 F 24 C	8.0	160	6.8 3.4	.2 .02	26 1.13	-- 76	1.8 .06	56 62	16 22	5.3 .15	1.8 .03	.03	--	86 85	18 0	2.7									
03/26/75	26K/24E-23H01 S017 S006	M 73 F 23 C	8.6	180	6.1 3.0	.1 .01	31 1.35	-- 81	7.8 .26	35 57	19 34	9.6 24	11.6 .11	.26	--	104 103	15 0	3.4									
05/14/75	26K/24E-23H00 S121 S006	M 78 F 26 C	8.0	190	8.0 4.0	.1 .01	34 1.48	-- 84	0 .95	58 52	25 27	11 16	8.3 .13	.01	--	117 130	21 0	3.3									
04/14/75	26K/24E-27P01 S017 S006	M 76 F 24 C	8.4	190	9.0 4.5	.4 .03	31 1.35	-- 74	13 .44	35 57	19 30	15 21	1.9 .23	.01	--	114 107	24 0	2.7									

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER 8 F TDS TN MCM				REMARKS		
					CA	MG	NA	K	CO ₃	SO ₄	CL	NO ₃	8	F	TDS	TN			
CENTRAL VALLEY SAN JOAQUIN VALLEY																			
01/16/75	5617 5806	26S/24E-28M80	76 24	F C	8.0 130	2.6 1.13 10	.0 .00	26 1.13 90	-- .00	0 1.11 85	68 1.10 8	5.0 .10 4	1.8 .05 4	2.6 .04 3	.03 --	70 71	7 0	4.4	
01/15/75	5617 5806	26S/24E-30M80	75 24	F C	8.7 150	12 .01	.0 .00	-- --	6.9 .23 13	4.3 .70 39	3.4 .71 39	4.6 .13 7	1.8 .03 2	.02 --	109 --	31 0	E 5		
01/17/75	5617 5806	26S/24E-31M80	76 24	F C	8.5 150	4.7 .23 15	.0 .00	30 1.31 85	-- .11 24	45 .74 47	10 .21 13	5.7 .16 10	4.3 .07 4	.02 --	89 88	12 0	3.8		
06/09/75	5121 5191	26S/24E-33F01	M		190	10 .50 26	.5 .04	32 1.39 71	1.0 .03 2	13 .44 2	5.4 .89 38	17 .35 15	19 .56 24	5.3 .09 4	.12 --	126 125	27 0	2.7 5	
06/09/75	5121 5191	26S/24E-34F01	M		220	7.0 .35 19	.1 .01	33 1.44 1	1.3 .03 79	1.3 .44 21	5.4 .89 43	18 .27 18	9.6 .13 4	.27 --	114 114	18 0	3.4 5		
06/09/75	5121 5191	26S/24E-34P01	M		210	11 .55 26	.1 .01	35 1.52 72	1.7 .04 2	6.6 .22 10	5.4 .89 41	21 .44 20	17 .56 23	.04 --	128 128	28 0	2.9		
05/15/75	5121 5191	26S/25E-08F01	M		210	11 .55 25	.7 .06	28 1.22 65	1.5 .04 2	1.5 .66 30	5.4 .89 41	16 .33 15	7.5 .21 10	.17 --	118 117	30 0	2.2 5		
06/06/75	5121 5191				210	15 .75 37	.6 .05	28 1.22 2	1.2 .03 60	26 .88 1	5.4 .89 37	18 .37 15	7.1 .14 6	.17 --	128 128	40 0	1.9 5		
05/09/75	5121 5806	26S/25E-11M01	M	77 25	F C	8.6 150	3.5 .17 11	.0 .00	30 1.31 87	1.0 .03 2	12 .43 29	14 .29 19	7.1 .20 13	.01 --	88 102	9 0	4.4		
06/09/75	5121 5191	26S/25E-31M01	M		280	21 1.05 38	1.5 .12	34 1.48 54	3.0 .88 3	0 .00	107 1.75 65	17 .35 13	9.9 .28 10	.13 --	159 158	59 0	1.9		
06/09/75	5121 5191	26S/25E-31R01	M		220	20 1.00 39	1.4 .12	32 1.39 5	2.8 .07 54	0 .00	87 1.43 57	24 .50 20	9.9 .28 11	.19 --	153 153	56 0	1.9		
06/09/75	5121 5191	26S/26E-07P02	M		1000	22 1.10 11	.9 .07	192 8.35 1	12 .33 85	0 .00	289 4.74 40	215 4.48 38	87 .07 21	.78 --	681 678	59 0	10.9 5		
06/09/75	5121 5191	26S/26E-08M02	M		1340	103 5.14 41	7.2 .59 5	153 6.66 53	7.6 .19 2	0 .00	121 1.98 14	275 5.73 41	126 3.55 25	.09 --	905 904	287 188	3.9 5		
06/09/75	5121 5191	26S/26E-30P01	M		200	16 .80 43	.2 .02	23 1.00 1	2.1 .05 53	6.6 .22 3	7.1 1.21 59	17 .35 17	5.8 .16 8	.11 --	115 114	41 0	1.6 5		
06/09/75	5121 5191	27S/22E-06M01	M		3600	198 9.88 25	60 4.93 12	580 25.23 63	9.1 .23 1	34 1.14 3	396 6.49 17	860 18.96 44	483 13.02 36	3.1 .05	2388 2365	741 359	9.3 5		
04/11/75	5050 0930	27S/22E-11L02	M	64 18	F C	7.6 6000 7.4 755	30 1.50 23	6.8 .56 9	102 4.44 68	.9 .02	0 .00	63 1.03 15	112 2.33 35	120 3.38 50	.1 .00	.20 --	434 403	103 52	4.4 5
04/11/75	5050 1030	27S/22E-13P01	M	77 25	F C	8.4 4500 7.7 5210	144 7.19 14	22 1.81 3	1000 43.50 83	2.2 .06	0 .00	237 3.88 7	834 17.36 33	1080 30.46 58	10.0 .00	3.10 --	3300 3232	449 256	20.5
06/12/75	5050 0600	27S/22E-14R01	M	68 20	F C	7.4 17500 8.0 18900	494 24.45 11	54 4.44 2	4320 187.92 87	7.2 .18	0 .00	256 4.20 2	3770 78.49 26	4730 133.31 170	8.30 .27	--	13600 13526	1450 1245	49.3 E
04/10/75	5050 1045	27S/22E-14R02	M	68 20	F C	8.4 18000 8.0 21200	330 16.47 7	67 5.51 2	5160 224.46 91	6.1 .16	0 .00	313 5.13 2	4650 17.36 39	5200 146.64 59	.1 .00	12.0 --	15000 15579	1100 843	67.7 E
04/10/75	5050 1045	27S/22E-14R03	M		16000 19400	595 29.69 13	86 5.67 3	4380 190.53 84	-- --	0 .00	222 3.64 2	-- 152.28	5400 97	14.0 .55	-- --	--	1770 1587	45.3 5	

TABLE E-1 (Continued)

		MINERAL ANALYSES OF GROUND WATER																	MILLIGRAMS PER LITER					MILLIGRAMS PER LITER					
DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIEQUIVALENTS PER LITER				PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				REM								
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	PERCENT REACTANCE VALUE	8	F	105 SUM	TM NCH	5AP										
CENTRAL VALLEY SAN JOAQUIN VALLEY																													
04/10/75 1140	5050	275/22E-14H04	M	8.0 19000 8.1 24800	353 17.01 6	81 6350 6.66276,23 2 92	--	0 343 .00 5.62 3	--	6940 24.0 195.71 .39 97	--	--	--	--	--	1210 933	79.3		A S										
04/10/75 1145	5050	275/22E-14H05	M	7.8 17000 7.9 18500	690 34.43 18	88 3870 7.24164,35 3 80	--	0 202 .00 3.31 2	--	4840 49.0 136.49 .79 97 1	--	--	--	--	--	2080 1920	36.9		S										
04/10/75 0955	5050	275/22E-14H06	M	7.9 17000 8.0 19700	495 24.70 11	69 4490 5.67195,32 3 87	--	0 294 .00 4.82 3	--	4940 .3 139.31 .00 97	--	--	--	--	--	1620 1279	50.1		S										
03/10/75	5017 5806	275/22E-3A201	M	76 F 24 C 7.4	1400 1.90 12	38 1.4 320 .12 13.92 1 87	--	0 44 .00 .72 4	111 458 5.0 2.31 12.42 .08 14 41	.51	--	--	--	--	--	961 956	101 65	13.9											
01/21/75	5017 5806	275/23E-01P00	M	75 F 24 C 8.5	230 24 20	8.9 .1 41 .44 1.78 20 80	--	7.8 35 .26 .57 12	47 .98 .37 .05 13 17 2	.03	--	--	--	--	--	140 139	23 0	3.8											
04/18/75	5017 5806	275/23E-01P01	M	77 F 25 C 9.2	260 19	10 .1 49 .50 .01 2.13 19 81	--	16 27 .54 .44 1.02 20 16	49 20 6.6 27 .57 .11 38 21 4	.31	--	--	--	--	--	166 165	26 0	4.2											
01/21/75	5017 5806	275/23E-02P00	M	78 F 26 C 9.0	150 6	2.0 .0 34 .19 .00 1.48 6 94	--	18 47 .62 .77 .10 39 49	5.0 1.8 2.6 5.0 .05 .04 6 3 3	.03	--	--	--	--	--	89 87	5 0	6.6											
05/12/75	5121 5806	275/23E-02P01	M	78 F 26 C 8.7	210 35 16	7.0 .0 42 .35 .00 1.83 16 43	1.1 11 .03 .37 1 17	44 28 .72 .58 33 26	18 1.1 .51 .02 23 1	.01	--	--	--	--	--	130 148	18 0	4.4											
01/21/75	5017 5806	275/23E-03P00	M	77 F 25 C 8.9	170 15 7	2.3 .0 36 .11 .00 1.57 7 93	--	18 42 .60 .69 .27 36 41	13 4.2 .9 .12 .01 16 7 1	.04	--	--	--	--	--	96 95	6 0	6.5											
01/21/75	5017 5806	275/23E-03P01	M	77 F 25 C 8.5	400 19 8	.3 75 .75 .02 3.26 41 1	--	10 43 .34 .70 1.02 8 17	29 3.4 52 .47 .05 102 21 1	.10	--	--	--	--	--	250 257	39 0	5.2											
01/21/75	5017 5806	275/23E-04P00	M	77 F 25 C 8.5	610 1.27 20	25 .2 116 .02 5.05 80	--	10 52 .34 .85 1.76 5 13	176 50 5.2 3.66 1.42 .08 22 1	.15	--	--	--	--	--	412 409	64 5	6.3											
01/21/75	5017 5806	275/23E-05P01	M	7.4 5100 17	183 8.13 17	1.5 960 .12 .06 .89 83	--	0 37 .00 .11 1.77 1 4	85 1800 2.6 1.77 46.32 .04 4 95	1.40	--	--	--	--	--	2877 2872	414 382	20.1											
06/06/75	5121 5806	275/23E-14H00	M	77 F 25 C 7.7	1570 4.49 28	90 .9 260 .07 11.31 71	2.6 0 .67 .00 14	135 400 2.21 8.33 14 52	184 12.2 5.20 .20 33 1	.52	--	--	--	--	--	1017 1025	229 118	7.5											
06/09/75	5121 5806	275/23E-14H02	M	7.8 2500 30	140 7.39 30	1.1 385 .09 16.75 69	3.0 0 .08 .00	124 698 2.03 14.53 8 58	259 25.5 7.31 .41 30 2	.87	--	--	--	--	--	1582 1596	375 273	8.7											
02/26/75	5017 5806	275/23E-16H00	M	74 F 26 C 7.4	1700 1.30 11	26 .5 240 .04 10.44 89	--	0 47 .00 .77 6	37 366 .5 10.34 .01 6 87	.55	--	--	--	--	--	699 694	67 29	12.6											
05/15/75	5121 5806	275/23E-18H00	M	7.5 1790 2.30	46 8.13 20	.5 350 .04 15.23 86	4.5 0 .12 .00 1	48 30 .79 .62 16.22 4 4	.5 575 .01 16.22 .01 4 92	.13	--	--	--	--	--	1031 1040	117 78	14.1											
07/19/75 1415	5050	275/23E-19H01	M	72 F 22 C 7.8	4230 4930 14	124 17 900 6.44 1.40 39.15 3 83	1.8 0 .05 .00	344 658 6.29 13.70 13 28	982 59.0 27.69 .95 57 2	2.80	--	--	--	--	--	3030 2938	393 78	19.8	S										
04/10/75 1450	5050	275/23E-19H02	M	66 F 19 C 7.9	5300 5550 11	121 25 1170 6.44 2.06 49.72 11 86	2.5 0 .06 .00	482 709 7.50 16.76 14 26	1170 16.0 32.99 .58 59 1	3.20	--	--	--	--	--	3430 3424	406 10	24.2											
04/19/75 1524	5050	275/23E-19H03	M	8.0 4500 8.0 4950	114 5.69 12	26 940 2.14 40.89 4 84	--	0 294 .00 4.82 12	-- 1170 70.0 32.99 1.13 85 3	--	--	--	--	--	--	790 151	20.7		S										
04/19/75 1545	5050	275/23E-19H04	M	8.0 4350 8.1 4950	82 4.09 8	23 1000 1.40 43.50 4 88	--	0 273 .00 4.47 12	-- 1110 69.0 31.30 1.11 85 7	--	--	--	--	--	--	299 76	25.2		S										

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER																								
DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PM EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER TDS SUM					REH
				CA	MG	NA	K	CO3	MO3	SO4	CL	NO3	R	F	TDS	TH	SUM	NCM	544					
CENTRAL VALLEY SAN JOAQUIN VALLEY																								
04/10/75 1435	5350 5050	27C/23E-19H05	M	8.0 8.0	4200 4710	87 3.3	15 7	988 1.23	-- 42.98	0 5.98	365 98	-- 24.20	1000 81	34.0 55	-- 2	--			228	0	28.4			
04/10/75 1510	5050 5050	27C/23E-19H06	M	8.0 7.9	4500 4750	98 4.89	20 1.64	912 39.67	-- 4.86	0 4.00	284 85	-- 13	1030 84	64.0 3	-- 8	--		329	94	21.9	5			
04/10/75 1535	5050 5050	27C/23E-19H07	M	8.0 7.9	5000 5740	117 5.84	26 2.14	1140 50.46	-- 4.86	0 4.00	474 6.82	-- 16	1230 34.69	48.0 77	-- 82	--		399	48	25.3	5			
04/11/75 1120	5050 5050	27C/23E-20J01	M	8.6 19	F 7.7	6000 6410	367 18.31	20 1.84	1220 53.87	2.0 1.05	0 5.95	363 49.76	2390 17.03	854 1.18	72.0 23	4.40 --	5020 4858	999	701	16.8	E			
05/10/75	5121 5806	27C/23E-25C00	M	7.6 24	F 7.9	1610 1610	92 4.59	.8 .07	260 11.31	4.4 1.1	0 4.00	69 1.48	490 16.20	146 4.13	16.6 27	.44 --	1055 1067	233	160	7.4				
03/06/75	5617 5806	27C/23E-27J01	M	77 25	F 7.8	1290 1290	42 2.10	.7 1.06	250 10.88	-- 83	0 4.00	117 1.92	276 5.31	188 1.17	10.6 1	.91 --	831 826	108	12	10.5				
05/10/75	5121 5806	27C/23E-26A00	M	7.6 24	F 8.6	590 590	23 1.15	.0 4.00	110 4.79	1.4 1.64	12 4.73	25 4.1	152 7.53	66 1.49	5.2 1.08	.01 11.0	-- 395	383	56	6.3				
04/11/75 1215	5050 5050	27C/23E-34C01	M	7.6 8.3	2208 2540	17 3	2.1 24.66	4.47 1.96	.7 1.02	0 12.52	764 5.37	258 21	233 4.21	97.0 1.54	3.18 6	--	1630 1554	51	0	34.5				
04/23/75	5050 5050	27C/23E-36A02	M	8.1	F	627	51 3.3	.0 4.00	170 5.22	.9 1.67	0 1.00	84 4.33	208 4.33	74 2.09	11.0 18	.68 --	532 497	123	75	4.6				
06/05/75	5121 5806	27C/24E-06F00	M	77 25	F 8.8	170 170	4.2 1.21	.1 1.01	74 1.44	.4 1.6	19 1.01	23 38	15 31	10 29	4.7 98	.06 17.0	-- 117	100	11	4.5				
01/21/75	5617 5806	27C/24E-06A00	M	76 24	F 8.4	170 170	5.0 2.28	.1 1.01	32 1.19	-- 1.83	6.9 23	47 77	12 25	3.4 39	.05 1.05	.02 --	97 97	14	0	3.7				
06/05/75	5121 5806	27C/24E-08A00	M	77 25	F C		3.0 1.15	.1 1.01	32 1.39	.1 1.9	18 1.00	23 38	12 25	9.6 27	3.7 96	.04 15.0	-- 105	90	8	5.0				
05/22/75	5121 5806	27C/24E-08F00	M	76 24	F C	8.8	140 140	4.3 2.21	.0 1.00	28 1.22	.9 1.02	18 45	5.0 1.6	2.0 2.86	1.1 1.02	.01 12.0	-- 94	80	11	3.7				
08/09/75	5121 5191	27C/24E-16A01	M		8.9	220	13 1.85	.1 1.45	38 1.63	1.1 1.03	19 26	54 69	18 37	13 17	6.6 11	.34 --	137 136	33	0	2.9				
03/05/75	5617 5806	27C/24E-19H00	M	75 24	F C	9.1	170 170	2.0 1.19	.0 1.00	74 1.48	-- 1.10	21 29	5.0 1.0	10 29	2.5 98	.03 --	89 90	5	0	6.6				
03/18/75	5617 5806	27C/24E-27H01	M	73 23	F C	7.8	280 280	24 1.29	.2 1.02	72 1.19	-- 1.00	60 96	23 48	34 27	16.6 10	.02 --	163 159	61	12	1.8				
01/28/75	5617 5806	27C/24E-27H00	M	74 23	F C	7.7	280 280	26 1.32	.3 1.02	32 1.19	-- 1.00	69 1.13	34 71	26 25	13.0 7.21	.06 --	189 167	67	11	1.7				
01/28/75	5617 5806	27C/24E-28A00	M	75 24	F C	8.2	280 280	4.0 2.3	.1 1.01	35 1.52	-- 1.00	73 1.20	5.0 1.18	23 4.5	2.6 94	.04 --	113 111	23	0	3.2				
01/28/75	5617 5806	27C/24E-28H00	M	75 24	F C	8.3	160 160	4.3 2.1	.0 1.00	30 1.11	-- 1.00	4.0 30	56 92	6.0 12	5.7 1.4	2.6 104	.03 --	87 85	11	0	4.0			
01/28/75	5617 5806	27C/24E-28H00	M	75 24	F C	7.9	240 240	14 1.72	.1 1.52	35 1.52	-- 1.00	58 75	31 65	21 62	5.2 98	.04 --	138 136	37	0	2.5				

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER																						
DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN								MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				REM		
				CA	MG	NA	K	CO3	NO3	SO4	CL	B	F	TDS SUM	TM NCH	SAR						
CENTRAL VALLEY SAN JOAQUIN VALLEY																						
03/16/75	5017 5006	77 25	F C	R, 7	190	8.0 +0 22	.1 +0 1	.73 1.44 78	--	1.0 1.34 1.8	35 .57 31	27 .56 30	12 .75 30	2.5 .04 2	.05 --	--	112 110	20 0	3.2			
06/11/75	5121 5006	75 24	F C	7.7	200	10 +0 25	.0 +0 25	.34 1.48 74	1.3 .03 1	0 .00 1	.43 .70 35	24 .50 25	26 .75 35	3.7 .06 3	.06 --	--	121 137	25 0	3.0			
06/09/75	5121 5191			A, 1	270	24 1.20 +0	2.2 .18 +0	24 1.1 4	4.0 .10 4	0 +0 59	.81 1.33 22	24 .50 15	12 .74 4	5.8 .52 4	.17 --	--	136 136	69 3	1.3			5
06/20/75	5121 5191			A, 8	400	35 1.75 4.2	15 1.23 36	24 1.04 25	3.9 .10 2	0 +0 40	.87 1.43 40	50 1.06 29	19 .56 15	12.3 .52 15	.18 --	--	224 223	149 78	0.9			5
06/20/75	5121 5191			T, 1	440	50 2.30 55	10 +0 19	25 1.09 24	4.1 .10 2	0 +0 59	.94 1.54 34	80 1.67 37	21 .60 13	41.2 .60 15	.14 --	--	279 278	166 89	0.8			
06/09/75	5121 4191			A, 1	170	38 1.90	5.4 .44	--	3.1 .08	0 +0	1.61 1.66 54	30 .92 20	3.4 .10 3	44.3 .71 23	.07 --	--	203 203	117 34				
06/09/75	5121 5191			A, 1	360	0.0 +0 +0	.1 +0 +0	3.14 1.05 90	2.1 .05 1	0 +0 1	1.01 1.66 47	38 .79 22	17 .07 10	5.5 .01	.19 --	--	208 207	15 0	8.1			
06/09/75	5121 5191			T, 8	A20	85 4.24 +0	18 1.55 21	37 1.61 21	1.1 .00 1	0 +0 1	1.01 1.66 23	22 .46 6	174 .56 6	15.5 .25 3	.11 --	--	407 406	290 207	0.9			5
06/20/75	5121 5191			A, 9	1290	125 6.24 58	33 2.71 25	39 1.70 16	6.4 .16 1	0 +0 1	1.7 1.75 14	145 3.02 24	232 .54 43	46.4 1.07 9	.16 --	--	781 700	448 360	0.8			5
06/09/75	5121 5191			T, 8	2400	110 5.79 28	5.4 14.22 2	37 1.09 69	3.7 .09	0 +0	.87 1.43 7	220 4.58 23	441 13.56 40	.5 .01	2.15 --	--	1200 1199	313 241	8.0			
06/09/75	5121 5191			A, 2	1300	57 2.84 30	2.9 6.26 1	144 1.76 67	1.8 .85 1	1.9 .06 1	1.34 2.26 26	177 3.69 43	21 2.57 10	.5 .01	.39 --	--	547 545	154 38	5.0			C
06/09/75	5121 5191			A, 2	840	47 2.35 24	5.2 14.3 5	173 5.15 65	3.1 .08 1	2.2 .07 1	1.91 3.13 42	145 3.02 40	46 1.31 17	.5 .01	.71 --	--	468 467	139 0	4.5			5
03/18/75	5017 5006	77 25	F C	A, 8	750	16 +0 18	.0 +0 2.78	.64 1.02 A2	--	1.0 .34 1.0	18 .30 9	56 1.00 34	2.5 .04 1	.05 --	--	--	213 210	30 0	5.1			
03/18/75	5017 5006	78 26	F C	7.6	3200	102 4.08 27	6.3 19.21 1	500 1.75 72	--	0 +0 2	.48 .79 2	10 30.35 1	3.3 1.00 46	.3 .05	.34 --	--	1866 1794	415 374	10.7			
06/18/75	5121 5006	73 22	F C	7.4	4400	490 24.45 54	13 1.08 2	450 19.58 43	5.0 .13	0 +0	2.6 3.34 7	1247 25.96 57	531 14.97 33	59.6 2.6	.60 --	--	2698 2623	1280 1110	5.5			
06/08/75	5121 5006	77 24	F C	A, 2	1290	64 2.45 19	1.1 10.15 1	238 1.0 A0	1.7 .06	0 +0	.57 .93 3	237 4.93 38	244 6.19 53	9.4 .15	.35 --	--	809 824	127 81	9.2			
03/20/75	5017 5006	77 25	F C	A, 5	1470	63 3.11 22	1.6 13.10 1	250 10.48 77	--	5.1 .17 1	28 .46 3	6.0 12.13 95	4.9 .53	.5 .01	.39 --	--	825 820	184 132	8.5			
06/02/75	5121 5006	71 22	F C	A, 3	380	14 +0 18	.1 +0 1	74 3.22 A2	5 .01	4.2 .14 4	29 .48 12	98 2.04 52	40 1.13 29	9.4 .15	.07 --	--	255 266	35 5	5.4			
06/09/75	5121 5191			A, 1	3800	227 11.33 29	8.0 27.41 2	630 1.9 A9	7.3 .04	0 +0	3.8 5.21 14	880 16.66 45	533 15.73 41	8.9 .14	2.90 --	--	2370 2369	600 339	11.2			5
06/06/75	5121 5006	70 24	F C	7.9	460	31 1.50 35	.3 +0 35	86 2.87 A4	1.6 .04 1	0 +0	.48 .79 18	77 1.60 36	68 1.42 43	11.3 .18	.09 --	--	279 293	79 40	3.2			

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					REMARKS
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	TDS	TH	SAR								
																		5102	5105	5108					
CENTRAL VALLEY SAN JOAQUIN VALLEY																									
04/08/75	5617	24C/24E=15401	M	77	F	11	.1	.45	--	7.8	.40	18	.45	1.4	--	152	28								
	5806	25 C	8.6	260	.55	.22	1.96	.37	.26	.56	.12	.03	.14	--	149	0	3.7								
05/10/75	5121	24C/24E=21040	M	78	F	.40	.0	.34	.4	0	.54	14	1.8	.5	.01	99	10								
	5806	26 C	8.2	160	.20	.00	1.68	.02	.00	.89	.29	.51	.01	11.0	109	0	4.7								
04/21/75	5617	24C/24E=34101	M	78	F	.01	.0	.35	--	12	.33	.50	1.8	.6	.17	89									
	5806	26 C	9.0	140	.00	.10	1.52	.43	.54	.10	.52	.01	1	--	88	0	30.5								
06/20/75	5121	24C/25E=02401	M	7.3	F	100	.15	.45	5.8	0	.67	190	59	75.3	.11	529	311								
	5191	25 C	8.0	260	.40	.12	1.36	.15	.00	1.10	3.86	1.56	1.21	--	523	256	1.1								
06/09/75	5121	24C/25E=10401	M	8.1	F	.87	.6	.70	.42	0	.94	165	39	63.1	.09	473	244								
	5191	26 C	1000	1000	.43	.54	3.15	.11	.00	1.54	3.44	1.12	.06	--	472	167	1.9								
06/09/75	5121	24C/25E=14E02	M	8.1	F	.32	1.1	.47	3.3	0	.74	.78	31	94.8	.18	246	84								
	5191	26 C	350	100	1.60	.04	2.74	.08	.00	1.21	1.46	.07	.40	--	246	24	2.2								
06/20/75	5121	24C/25E=12F01	M	7.0	F	.200	.30	.83	7.0	0	.94	450	1.02	101	.11	1020	623								
	5191	26 C	1760	100	.40	.24	3.61	.18	.00	1.54	4.37	2.88	1.63	--	1019	546	1.4								
06/09/75	5121	24C/25E=14003	M	7.4	F	.240	.63	1.31	5.8	0	.74	.68	1.8	31.0	.04	1060	645								
	5191	26 C	2200	100	.66	.52	5.70	.15	.00	1.21	4.44	5.30	.50	--	1055	485	2.2								
06/09/75	5121	24C/25E=21400	M	7.7	F	124	1.7	1.19	4.7	0	.67	.207	2.0	22.1	.15	503	312								
	5191	26 C	1300	100	.53	.14	5.18	.12	.00	1.10	4.31	5.54	.38	--	710	257	2.9								
06/09/75	5121	24C/25E=32F01	M	8.5	F	.80	.1	.63	.7	.9	.67	.30	.63	.5	.59	173	20								
	5191	26 C	380	100	.40	.01	2.74	.02	.03	1.10	.06	1.80	.01	--	174	0	6.1								
06/20/75	5121	24C/26E=19001	M	7.4	F	.90	.45	.63	5.0	0	.67	.204	.73	25.7	.10	511	243								
	5191	26 C	760	100	.56	.37	2.74	.13	.00	1.10	4.25	2.07	.41	--	499	188	1.8								
06/20/75	5121	26C/26E=20101	M	7.4	F	.40	.15	.50	3.5	0	.67	100	.25	8.4	.18	268	107								
	5191	26 C	440	100	.23	.00	2.18	.08	.00	1.10	2.08	.71	.14	--	262	53	2.1								
05/13/75	5121	24C/26E=02001	M	7.8	F	.28	.2	1.68	2.1	0	.35	.26	.270	.5	.01	513	71								
	5806	26 C	7.8	880	.16	.03	.03	.1	.00	.57	.54	7.83	.01	10.0	523	43	8.7								
04/21/75	5617	24C/26E=02101	M	7.8	F	.164	.40	.498	--	.0	.57	.56	.793	.1	.36	1417	281								
	5806	26 C	7.7	2500	.544	.16	18.62	.77	.00	.93	1.04	22.30	.00	--	1410	234	11.1								
06/09/75	5121	24C/24E=01401	M	7.7	F	.10	.1	.76	.9	0	.94	.11	.12	2.2	.21	119	25								
	5191	26 C	260	100	.50	.01	1.57	.02	.00	1.54	.23	.34	.04	--	119	0	3.1								
05/13/75	5121	24C/24E=04E00	M	77	F	.10	.0	.41	2.0	0	.42	.51	.18	.42	.01	147	25								
	5806	26 C	8.0	230	.50	.00	1.78	.05	.00	.29	1.06	.53	.07	7.0	155	0	3.6								
06/03/75	5121	24C/24E=07R00	M	7.8	F	.27	.1	1.25	2.1	0	.44	.76	.159	1.1	.01	412	68								
	5806	26 C	7.8	690	1.35	.01	5.84	.05	.00	.79	1.54	4.49	.82	9.0	421	29	6.6								
06/09/75	5121	24C/24E=07C01	M	7.5	F	.22	.2	1.29	1.2	0	.67	.85	1.60	4.9	.33	437	56								
	5191	26 C	840	100	1.10	.02	5.61	.03	.00	1.10	1.77	4.51	.08	--	436	1	7.5								
03/25/75	5617	24C/24E=14401	M	71	F	.80	.0	.43	--	6.0	.33	.37	.24	.42	.33	142	20								
	5806	26 C	8.7	240	.40	.00	1.87	.02	.00	.54	.77	.70	.07	--	140	0	4.2								
05/13/75	5121	24C/24E=14402	M	74	F	.40	.0	.39	1.1	0	.61	.43	.11	.73	.01	136	23								
	5806	26 C	7.7	220	.40	.00	1.78	.07	.00	.84	.40	.32	.12	10.0	146	0	3.6								
06/09/75	5121	24C/24E=14402	M	7.7	F	.12	.5	.63	.9	0	.74	.18	.29	6.6	.21	147	32								
	5806	26 C	240	100	.20	.04	1.87	.02	.00	1.21	.37	.63	.11	--	147	0	3.3								

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

MINERAL ANALYSES OF GROUND WATER																							
DATE TIME	SAMPLER LAB	T.M.P.	FIELD LABORATORY PH	FC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				REM
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR					
CENTRAL VALLEY SAN JOAQUIN VALLEY																							
03/25/75	5017 5000	24C/24E-18A-1	M	7m 24	F C	7.9	510	12 12	105 105	0 0	103 103	5.0 5.0	125 125	5 5	.37	--	299 300	31 0	0.2				
06/09/75	5121 5191	24C/24E-19H-1	M	7.7		370	40 12	1 1	74 105	5 0	0 0	67 13	24 24	1.8 1.8	.18	--	230 230	23 0	0.7		S		
06/09/75	5121 5191	24C/24E-23H-1	M	7.5		260	8.0 10	1 1	46 105	9 0	0 0	67 13	24 24	1.8 1.8	.24	--	165 165	20 0	4.4		S		
06/09/75	5121 5191	24C/24E-24F-1	M	7.5		250	12 21	1 1	62 105	1.0 0	0 0	60 55	22 22	15.5 15.5	.18	--	188 188	30 0	4.1		E		
06/09/75	5121 5191	24C/24E-24H-1	M	7.4		480	25 10	1 1	67 105	1.4 0	0 0	67 103	50 50	4.4 4.4	.13	--	285 285	64 9	3.7		S		
06/09/75	5121 5191	24C/24E-30H-1	M	7.0		1100	106 124	11 11	103 103	4.0 1.0	0 0	362 4.4	212 4.4	51 4.4	2.2 1.3	.24	--	642 639	713 65	2.5			
06/09/75	5121 5191	24C/25E-03H-1	M	6.0		350	35 1.75	1 2	44 105	2.4 0	0 0	67 103	57 57	36 36	14.5 14.5	.13	--	244 243	36 36	2.0			
06/09/75	5121 5191	24C/25E-05H-1	M	7.5		440	57 47	1 1	45 105	3.4 1.0	0 0	67 103	108 108	42 42	35.4 35.4	.12	--	405 405	144 144	2.5			
06/09/75	5121 5191	24C/25E-09H-2	M	7.5		440	89 4.44	1 1	2.1 105	4.0 1.0	0 0	67 103	113 113	1.7 1.7	8.9 8.9	.29	--	407 407	231 176	1.4		S	
06/09/75	5121 5191	24C/25E-10H-2	M	6.1		260	25 1.25	1 1	34 105	1.7 0	0 0	68 103	19 19	24 24	1.3 1.3	.17	--	140 139	64 64	1.9		S	
06/09/75	5121 5191	24C/25E-19H-1	M	7.7		310	27 1	1 1	46 105	1.8 0	0 0	11 55	24 24	15.9 15.9	.30	--	224 176	69 60	2.4		E 1		
06/09/75	5121 5191	24C/25E-27H-1	M	7.5		440	59 2.94	1 1	1.9 105	4.5 1.0	0 0	67 103	95 95	75 75	17.7 17.7	.10	--	342 341	155 100	1.9			
06/09/75	5121 5191	24C/25E-28H-1	M	6.0		340	43 2.15	1 1	2.5 105	2.3 0	0 0	108 103	35 35	12 12	20.4 20.4	.22	--	234 233	118 118	1.4		S	
06/09/75	5121 5191	24C/25E-28H-1	M	6.3		140	34 1.70	1 1	1.7 105	1.5 0	0 0	161 103	10 10	6.9 6.9	5.8 5.8	.14	--	172 170	92 0	1.4			
06/09/75	5121 5191	24C/25E-30H-1	M	6.9		230	22 1.10	1 1	44 105	1.3 0	0 0	74 103	65 65	27 27	16.3 16.3	.16	--	224 223	56 0	3.1		E C	
06/09/75	5121 5191	24C/25E-31H-1	M	7.7		720	72 3.6	1 1	70 105	3.2 0	0 0	201 103	100 100	55 55	23.5 23.5	.41	--	426 424	185 21	2.2		S	
06/09/75	5121 5191	24C/25E-34H-1	M	6.1		560	64 3.2	1 1	15 105	2.4 0	0 0	156 103	68 68	24 24	14.1 14.1	.16	--	320 319	198 70	1.1			
06/20/75	5121 5191	24C/26E-02L-1	M	7.5		430	35 1.75	1 1	49 105	7.3 3.7	0 0	74 110	110 110	53 53	21.7 21.7	.21	--	335 334	91 31	3.3		S	
06/20/75	5121 5191	24C/26E-04H-1	M	7.4		400	75 49	1 1	13 105	5.5 1.5	0 0	121 103	230 230	25 25	11.9 11.9	.39	--	506 505	241 142	1.8		S	
06/20/75	5121 5191	24C/26E-07H-1	M	7.0		400	43 2.15	1 1	2.0 105	3.3 0	0 0	74 103	77 77	42 42	21.3 21.3	.21	--	260 259	116 55	1.3		S	

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER																																
DATE TIME	SAMPLE LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER PERCENT REACTANCE VALUE										MILLIGRAMS PER LITER TDS SUM			REMARKS				
					Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	9	F	SiO ₂	TH	ACW	SAR													
CENTRAL VALLEY SAN JOAQUIN VALLEY																																
06/20/75	5121 5191	24.5/26.6-08R01	M		7.4	7.6	100	0.5	4.5	4.7	0	1.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
06/09/75	5121 5191	29.5/26.6-16R01	M		7.9	4.4	2.5	5.1	3.2	1.5	0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
06/09/75	5121 5191	29.5/26.6-14R01	M		7.7	7.3	3.5	5.2	4.6	3.8	0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
06/09/75	5121 5191	29.5/26.6-17R01	M		8.0	10.0	5.1	1.9	4.6	2.2	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
06/20/75	5121 5191	29.5/26.6-22R01	M		7.5	7.2	2.7	5.2	1.8	4.3	0	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
06/20/75	5121 5191	29.5/26.6-24R01	M		7.6	4.5	5.0	4.4	3.5	3.1	0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
06/09/75	5121 5191	29.5/26.6-32R03	M		7.9	2.0	1.0	3.5	1.8	1.0	0	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
06/26/75	5121 5006	29.5/27.6-07R01	M		7.7	5.5	2.2	4.5	1.2	3.2	0	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
02/12/75	5701 5701	29.5/27.6-23R01	M		10	10	2.5	4.0	1.9	1.7	0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
10/09/74	5701 5701	29.5/27.6-24R01	M		10	10	2.5	4.0	1.9	1.7	0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
03/24/75	5701 5701	29.5/27.6-25R01	M		10	10	2.5	4.0	1.9	1.7	0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
05/12/75	5701 5701	29.5/27.6-25R02	M		10	10	2.5	4.0	1.9	1.7	0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
08/04/75	5701 5701	29.5/27.6-26R01	M		10	10	2.5	4.0	1.9	1.7	0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
01/13/75	5701 5701	29.5/27.6-26R02	M		10	10	2.5	4.0	1.9	1.7	0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
07/07/75	5701 5701	29.5/27.6-26R03	M		10	10	2.5	4.0	1.9	1.7	0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
08/04/75	5701 5701	29.5/27.6-35R02	M		10	10	2.5	4.0	1.9	1.7	0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
03/24/75	5701 5701	29.5/27.6-35R03	M		10	10	2.5	4.0	1.9	1.7	0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
08/04/75	5701 5701	29.5/27.6-35R04	M		10	10	2.5	4.0	1.9	1.7	0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
09/09/75	5701 5701	29.5/27.6-36R01	M		10	10	2.5	4.0	1.9	1.7	0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
10/18/74	5701 5701	29.5/27.6-36R02	M		10	10	2.5	4.0	1.9	1.7	0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
08/04/75	5701 5701	29.5/27.6-36R03	M		10	10	2.5	4.0	1.9	1.7	0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER										MILLIGRAMS PER LITER																																																																																																																																																																																																																																																																																																																																																																																															
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				CA	MG	NA	K	CO3	NO3	SO4	CL	NO3	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT 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VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT 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VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT 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VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT 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TABLE E-1 (Continued)

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL ANALYSES OF GROUND WATER										MILLIGRAMS PER LITER						REMARKS
					MINERAL CONSTITUENTS IN										MILLIEQUIVALENTS PER LITER						
					CA	MG	NA	K	CO3	CO3	SO4	CL	NO3	PERCENT REACTIVE VALUE	H	F	TDS	TH	SAR		
CENTRAL VALLEY SAN JOAQUIN VALLEY																					
01/13/75	5701	26.5/26.5-21M01	M	76	F	2.0	31	2.0	19	.8	.5	67	40	23	.0	--	.2	172	88		
	5701			24	C	8.0	275	1.55	.43	.02	1.10	.83	.95	.00		22.0	171	30	0.9		
01/13/75	5701	26.5/26.5-29001	M	71	F	2.0	30	2.0	1.4	.4	.4	94	22	20	.0	--	.1	166	84		
	5701			21	C	7.8	263	1.50	.47	.04	.01	1.54	.46	.55	.00		24.0	166	6	1.0	
06/04/75	5701	26.5/26.5-29010	M	70	F	2.0	18	.0	22	1.3	.8	74	15	12	.0	--	.1	118	84		
	5701			21	C	8.2	190	.90	.00	.96	.03	.03	1.21	.31	.34	.00		13.0	118	0	1.4
06/04/75	5701	26.5/26.5-29010	M	70	F	2.0	23	1.0	.39	1.7	.8	74	63	18	.0	--	.1	192	62		
	5701			21	C	8.2	310	1.15	.08	1.70	.04	.03	1.21	1.31	.51	.00		9.0	192	0	2.2
06/04/75	5701	26.5/26.5-29010	M	71	F	2.0	15	1.0	.52	1.6	1.4	104	33	23	.0	--	.2	193	42		
	5701			27	C	8.3	323	.75	.08	2.26	.04	.05	1.70	.77	.65	.00		10.0	192	0	3.5
09/09/75	5701	26.5/26.5-30A01	M	68	F	2.0	23	1.0	.17	1.1	.2	90	14	8.0	4.0	--	.1	136	64		
	5701			2	C	7.6	202	1.15	.08	.74	.03	.01	1.44	.29	.23	.00		22.0	135	0	0.9
06/06/75	5701	26.5/26.5-30F02	M	66	F	2.0	38	.40	.22	2.0	.3	124	32	17	3.0	--	.2	201	112		
	5701			19	C	7.5	120	1.90	.33	.06	.07	.01	2.13	.67	.48	.05		21.0	201	10	0.9
07/07/75	5701	26.5/26.5-30G01	M	67	F	2.0	38	.40	.22	2.0	.2	127	36	18	5.0	--	.1	212	122		
	5701			14	C	7.3	741	1.40	.49	.67	.01	2.18	.75	.51	.08		22.0	212	15	0.9	
07/07/75	5701	26.5/26.5-30H02	M	68	F	2.0	24	1.0	.19	1.4	.4	102	24	13	2.0	--	.1	162	84		
	5701			21	C	7.0	251	1.45	.25	.43	.05	.01	1.67	.50	.37	.03		20.0	162	1	0.9
11/11/74	5701	26.5/26.5-30I02	M	68	F	2.0	324	.36	.22	2.5	.3	126	25	18	1.0	--	.2	197	110		
	5701			21	C	7.6	324	1.60	.41	.46	.06	.01	2.17	.52	.41	.02		25.0	197	7	0.9
05/05/75	5701	26.5/26.5-30J02	M	68	F	2.0	33	.20	.21	1.8	.2	112	23	13	.0	--	.1	173	90		
	5701			14	C	7.5	278	1.05	.16	.91	.05	.01	1.84	.48	.37	.00		24.0	173	0	1.0
06/06/75	5701	26.5/26.5-30K02	M	68	F	2.0	33	.40	.20	2.4	.1	124	24	13	1.0	--	.1	184	100		
	5701			21	C	7.2	287	1.65	.33	.47	.07	.00	2.03	.50	.37	.02		25.0	184	0	0.9
08/06/75	5701	26.5/26.5-30L04	M	68	F	2.0	34	.50	.20	2.4	.2	122	25	14	5.0	--	.2	190	104		
	5701			21	C	7.4	290	1.70	.41	.47	.06	.01	2.00	.52	.39	.04		24.0	190	5	0.8
08/06/75	5701	26.5/26.5-31B02	M	68	F	2.0	31	.40	.20	2.4	.3	119	20	14	2.0	--	.1	172	94		
	5701			14	C	7.5	293	1.55	.33	.47	.07	.01	1.95	.42	.39	.03		20.0	173	0	0.9
06/06/75	5701	26.5/26.5-31B04	M	68	F	2.0	31	.30	.21	2.4	.5	121	21	13	3.0	--	.1	176	92		
	5701			14	C	7.4	275	1.55	.25	.41	.06	.02	1.94	.44	.37	.05		21.0	175	0	1.0
05/06/75	5701	26.5/26.5-31F02	M	67	F	2.0	42	.50	.24	3.6	.2	139	28	21	9.0	--	.2	229	124		
	5701			14	C	7.4	360	2.10	.41	1.74	.09	.01	2.20	.58	.44	.15		26.0	229	11	0.9
01/13/75	5701	26.5/26.5-31G02	M	67	F	2.0	14	.20	.25	1.0	.6	87	18	13	2.0	--	.1	143	56		
	5701			19	C	8.1	220	.45	.16	1.09	.03	.02	1.43	.37	.17	.03		20.0	143	0	1.5
03/13/75	5701	26.5/26.5-31J02	M	67	F	2.0	14	.10	.25	1.3	1.2	90	17	12	2.0	--	.1	144	54		
	5701			14	C	8.3	222	.44	.16	1.09	.03	.04	1.44	.35	.14	.03		21.0	143	0	1.5
01/13/75	5701	26.5/26.5-31J02	M	68	F	2.0	23	.30	.25	2.2	.4	94	23	14	4.0	--	.2	167	70		
	5701			21	C	7.9	255	1.15	.25	1.09	.06	.02	1.54	.48	.45	.06		24.0	167	0	1.3
01/13/75	5701																				
08/06/75	5701	26.5/26.5-31K02	M	68	F	2.0	34	.50	.21	2.8	.1	120	28	17	3.0	--	.2	193	104		
	5701			21	C	7.0	104	1.70	.41	.47	.07	.00	1.97	.58	.44	.05		23.0	193	7	0.9

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

MINERAL ANALYSIS OF GROUND WATER																					
DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	PC	MILLIGRAMS PER LITER										MILLIEQUIVALENTS PER LITER					REM	
					MINERAL CONSTITUENTS IN										PERCENT REACTANCE VALUE						
					Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	H	F	TDS	TH	549			
CENTRAL VALLEY SAN JOAQUIN VALLEY																					
03/24/75	5701 5701	29.6/20.6=31.043	M	66 14	F C	7.4	403	44 2.20 55	7.0 5.8 14	27 1.17 29	2.5 .06 1	.3 .01 1	141 2.31 57	38 .79 19	24 .82 20	9.0 .15 2	--	+2 28.0	253 254	140 23	1.0
06/04/75	5701 5701	29.6/20.6=30.041	M	71 21	F C	7.7	440	114 5.94 67	8.0 5.9 7	49 2.13 24	5.2 .13 1	.2 .01 1	70 1.15 13	268 6.58 61	40 2.26 25	5.0 .08 3	--	+1 14.0	583 583	332 272	1.2
08/04/75	5701 5701	29.6/20.6=30.041	M	71 22	F C	7.7	317	126 6.29 67	13 1.07 11	42 1.83 20	5.0 .13 1	.3 .01 1	80 1.31 14	268 5.58 58	85 2.40 14	17.0 .27 3	--	+1 15.0	610 611	368 302	1.0
07/07/75	5701 5701	29.6/20.6=30.041	M	71 21	F C	7.7	455	52 2.54 59	5.0 4.1 9	30 1.31 30	3.1 .06 2	.6 .02 1	91 1.49 34	73 1.52 34	46 1.20 29	7.0 .11 2	--	+1 18.0	288 279	150 75	1.1
08/04/75	5701 5701	29.6/20.6=30.041	M	71 22	F C	7.7	774	88 4.34 80	12 1.4 14	42 1.83 25	3.7 .03 1	.4 .01 1	121 1.48 27	155 3.23 44	66 1.46 25	19.0 .31 4	--	+1 21.0	467 467	268 170	1.1
05/14/75	5701 5701	29.6/20.6=30.041	M	77 25	F C	7.7	2250	317 15.92 62	6.0 4.4 2	209 9.09 45	9.2 .24 1	.1 .00 1	26 1.3 2	815 16.97 65	275 7.76 29	71.0 .15 4	--	+1 16.0	1732 1731	818 795	3.2
05/05/75	5701 5701	29.6/20.6=30.041	M	70 26	F C	7.7	447	51 2.54 54	4.0 4.0 3	40 1.9 59	5.5 .14 2	.4 .01 1	119 1.95 10	115 2.39 37	70 1.97 31	8.0 .13 2	--	+1 14.0	416 416	128 29	3.4
05/14/75	5701 5701	29.6/20.6=30.041	M	71 26	F C	7.7	675	34.0 2.58 30	3.0 4.6 4	43 5.6 2	5.5 .14 2	.6 .02 1	118 1.93 30	115 2.39 37	69 1.15 30	9.8 .15 2	--	+1 14.0	406 406	136 42	3.1
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	796	50 2.50 52	12 4.75 13	100 9.75 55	2.0 .05 1	0 .00 1	207 3.39 44	135 2.81 37	51 1.19 14	4.0 .01 2	+40	--	455 453	174 5	3.3
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	520	30 1.50 31	4.0 4.3 1	76 3.31 66	1.3 .43 1	0 .00 1	67 1.16 23	120 2.58 52	42 1.19 25	4.5 .01 2	+09	--	305 304	77 22	3.8
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/09/75	5121 5191	31.6/20.6=30.041	M	71 21	F C	7.7	544	62 2.49 50	3.4 2.8 5	49 2.13 38	1.1 .05 1	0 .00 1	47 1.43 24	144 3.7 67	13.7 4.00 67	8.0 .22 4	+20	--	336 335	169 97	1.6
06/																					

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER																							
DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	FIELD EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				REM
					PERCENT EQUIVALENT VALUE										PER LITER				PER LITER				
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3		g	F	TDS	TH	SAR				
CENTRAL VALLEY SAN JOAQUIN VALLEY																							
09/09/75	5701	30.5/27E-11M01	M	65	F	7.0	37.8	2.15	57	8.0	21	2.2	+1	159	28	16	14.0	--	+1	236	142	0.8	
	5701			1.8	C	7.0	37.8	2.15	57	8.0	21	2.2	+1	159	28	16	14.0	--	+1	236	142	0.8	
01/13/75	5701	30.5/27E-02A02	M	65	F	7.6	26.7	1.40	52	4.0	20	2.6	+3	119	17	14	5.0	--	+2	169	88	0.9	
	5701			1.8	C	7.6	26.7	1.40	52	4.0	20	2.6	+3	119	17	14	5.0	--	+2	169	88	0.9	
08/04/75	5701	30.5/27E-02F01	M	67	F	7.2	31.7	1.70	53	6.0	22	2.4	-1	127	19	21	5.0	--	+2	193	108	0.9	
	5701			1.9	C	7.2	31.7	1.70	53	6.0	22	2.4	-1	127	19	21	5.0	--	+2	193	108	0.9	
09/09/75	5701	30.5/27E-02M01	M	67	F	7.0	37.4	2.15	58	6.0	23	2.3	+1	151	27	17	20.0	--	+1	240	134	0.9	
	5701			1.8	C	7.0	37.4	2.15	58	6.0	23	2.3	+1	151	27	17	20.0	--	+1	240	134	0.9	
10/09/74	5701	30.5/27E-02P01	M	65	F	7.2	34.2	1.75	53	6.0	23	1.4	+1	115	23	23	14.0	--	+2	210	110	0.9	
	5701			1.8	C	7.2	34.2	1.75	53	6.0	23	1.4	+1	115	23	23	14.0	--	+2	210	110	0.9	
10/09/74	5701	30.5/27E-11M01	M	65	F	7.2	39.1	1.49	52	7.0	27	2.4	+2	144	25	24	10.0	--	+2	235	126	1.0	
	5701			1.8	C	7.2	39.1	1.49	52	7.0	27	2.4	+2	144	25	24	10.0	--	+2	235	126	1.0	
02/12/75	5701	30.5/27E-11D02	M	65	F	7.0	29.8	1.20	53	6.0	18	1.6	+5	49	14	12	2.0	--	+2	147	72	0.9	
	5701			1.8	C	7.0	29.8	1.20	53	6.0	18	1.6	+5	49	14	12	2.0	--	+2	147	72	0.9	
10/09/74	5701	30.5/27E-11B01	M	66	F	7.1	45.4	1.51	51	10	30	2.8	+1	108	39	21	30.0	--	+1	282	154	1.1	
	5701			1.9	C	7.1	45.4	1.51	51	10	30	2.8	+1	108	39	21	30.0	--	+1	282	154	1.1	
10/07/74	5701	30.5/27E-12L02	M	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	5701			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
05/05/75	5701	30.5/27E-12M02	M	67	F	7.2	46.7	2.64	50	9.0	30	4.1	+2	183	43	22	14.0	--	+0	300	172	1.0	
	5701			1.9	C	7.2	46.7	2.64	50	9.0	30	4.1	+2	183	43	22	14.0	--	+0	300	172	1.0	
10/09/74	5701	30.5/27E-12N02	M	64	F	7.3	40.5	2.25	57	6.0	23	2.1	+2	163	34	14	8.0	--	+2	247	145	0.8	
	5701			1.8	C	7.3	40.5	2.25	57	6.0	23	2.1	+2	163	34	14	8.0	--	+2	247	145	0.8	
09/09/75	5701	30.5/27E-12P01	M	67	F	7.4	25.6	1.35	51	6.0	19	1.6	+2	117	20	10	8.0	--	+2	164	88	0.9	
	5701			1.9	C	7.4	25.6	1.35	51	6.0	19	1.6	+2	117	20	10	8.0	--	+2	164	88	0.9	
10/09/74	5701	30.5/27E-13C01	M	65	F	7.0	39.9	1.41	52	6.0	27	2.0	+1	164	31	16	14.0	--	+2	249	135	1.0	
	5701			1.8	C	7.0	39.9	1.41	52	6.0	27	2.0	+1	164	31	16	14.0	--	+2	249	135	1.0	
02/12/75	5701	30.5/27E-13M01	M	66	F	7.8	29.6	1.05	53	6.0	19	1.4	+5	124	22	13	5.0	--	+1	182	106	0.8	
	5701			1.8	C	7.8	29.6	1.05	53	6.0	19	1.4	+5	124	22	13	5.0	--	+1	182	106	0.8	
02/18/75	5701	30.5/27E-13M02	M	66	F	7.8	26.3	1.40	52	6.0	19	1.4	+8	118	19	12	6.0	--	+2	174	92	0.9	
	5701			1.9	C	7.8	26.3	1.40	52	6.0	19	1.4	+8	118	19	12	6.0	--	+2	174	92	0.9	
10/09/74	5701	30.5/27E-14M02	M	64	F	7.6	26.7	1.40	53	6.0	18	1.4	+3	114	18	12	1.0	--	+0	166	90	0.8	
	5701			1.9	C	7.6	26.7	1.40	53	6.0	18	1.4	+3	114	18	12	1.0	--	+0	166	90	0.8	
02/12/75	5701	30.5/27E-14M01	M	64	F	7.9	23.8	1.30	54	6.0	17	1.5	+6	106	16	11	2.0	--	+2	156	82	0.8	
	5701			1.8	C	7.9	23.8	1.30	54	6.0	17	1.5	+6	106	16	11	2.0	--	+2	156	82	0.8	
06/26/75	5121	30.5/27E-14C01	M	66	F	7.8	26.3	1.40	52	6.0	19	1.4	+8	118	19	12	6.0	--	+2	174	92	0.9	
	5906			1.9	C	7.8	26.3	1.40	52	6.0	19	1.4	+8	118	19	12	6.0	--	+2	174	92	0.9	
06/20/75	5121	30.5/27E-20F01	M	66	F	7.8	30.8	1.25	51	6.0	25	3.0	+8	128	35	14	13.7	--	--	188	95	1.1	
	5191			1.9	C	7.8	30.8	1.25	51	6.0	25	3.0	+8	128	35	14	13.7	--	--	187	0	1.1	
07/07/75	5701	30.5/27E-23C02	M	66	F	7.4	31.5	1.80	55	6.0	21	2.1	+7	126	29	15	2.0	--	+2	192	114	0.9	
	5701			2	C	7.4	31.5	1.80	55	6.0	21	2.1	+7	126	29	15	2.0	--	+2	192	114	0.9	
05/06/75	5701	30.5/27E-23C03	M	64	F	7.6	33.9	1.90	57	6.0	22	2.0	+4	136	29	14	4.0	--	+2	206	116	0.9	
	5701			1.8	C	7.6	33.9	1.90	57	6.0	22	2.0	+4	136	29	14	4.0	--	+2	206	116	0.9	

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

MINERAL ANALYSES OF IRRIGATION WATER																							
DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER					REM			
					CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	PERCENT REACTIVE VALUE	8	F	TDS SUM	TH NCM	549				
CENTRAL VALLEY SAN JOAQUIN VALLEY																							
07/07/75	5701	305/27E-23C04	M	19	F	7.7	337	1.95	57	3.4	0.0	21	2.1	.5	136	31	17	8.0	--	+1	213	124	0.8
	5701	19	F	19	C	7.7	337	1.95	57	3.4	0.0	21	2.1	.5	136	31	17	8.0	--	+1	213	124	0.8
03/24/75	5701	305/27E-27D01	M	18	F	7.7	248	1.35	27	3.0	1.9	1.4	.3	102	18	12	4.0	--	+2	155	82	0.9	
	5701	18	F	18	C	7.7	248	1.35	27	3.0	1.9	1.4	.3	102	18	12	4.0	--	+2	155	82	0.9	
02/12/75	5701	305/28E-05H01	M	21	F	8.1	510	2.69	54	1.0	33	2.6	.9	133	45	58	3.0	--	+1	322	178	1.1	
	5701	21	F	21	C	8.1	510	2.69	54	1.0	33	2.6	.9	133	45	58	3.0	--	+1	322	178	1.1	
09/10/75	5701	305/28E-05C01	M	19	F	7.4	537	3.14	57	1.1	32	2.7	.3	175	49	44	30.0	--	+1	335	202	1.0	
	5701	19	F	19	C	7.4	537	3.14	57	1.1	32	2.7	.3	175	49	44	30.0	--	+1	335	202	1.0	
01/13/75	5701	305/28E-05E01	M	19	F	7.4	415	2.30	56	1.0	25	2.7	.2	132	35	36	8.0	--	+1	251	148	0.9	
	5701	19	F	19	C	7.4	415	2.30	56	1.0	25	2.7	.2	132	35	36	8.0	--	+1	251	148	0.9	
02/03/75	5701	305/28E-05F01	M	20	F	7.9	365	1.90	52	1.0	27	2.5	.7	127	34	24	12.0	+11	+1	230	120	1.1	
	5701	20	F	20	C	7.9	365	1.90	52	1.0	27	2.5	.7	127	34	24	12.0	+11	+1	230	120	1.1	
03/24/75	5701	305/28E-05K01	M	20	F	8.0	364	1.95	53	1.1	29	2.0	.9	125	41	21	8.0	--	+1	230	120	1.2	
	5701	20	F	20	C	8.0	364	1.95	53	1.1	29	2.0	.9	125	41	21	8.0	--	+1	230	120	1.2	
02/12/75	5701	305/28E-05M01	M	21	F	8.2	294	2.3	43	2.0	27	1.8	1.1	105	20	15	3.0	--	+2	161	68	1.5	
	5701	21	F	21	C	8.2	294	2.3	43	2.0	27	1.8	1.1	105	20	15	3.0	--	+2	161	68	1.5	
09/10/75	5701	305/28E-06C02	M	19	F	7.3	398	2.33	59	1.2	24	2.7	.1	151	36	21	14.0	--	+1	252	144	0.9	
	5701	19	F	19	C	7.3	398	2.33	59	1.2	24	2.7	.1	151	36	21	14.0	--	+1	252	144	0.9	
05/05/75	5701	305/28E-06C03	M	19	F	7.4	371	2.05	57	1.1	25	2.4	.2	124	26	32	3.0	--	+1	220	122	1.0	
	5701	19	F	19	C	7.4	371	2.05	57	1.1	25	2.4	.2	124	26	32	3.0	--	+1	220	122	1.0	
08/04/75	5701	305/28E-06G02	M	19	F	7.2	407	2.33	56	1.0	25	2.4	.2	151	40	27	4.0	--	+2	251	148	0.9	
	5701	19	F	19	C	7.2	407	2.33	56	1.0	25	2.4	.2	151	40	27	4.0	--	+2	251	148	0.9	
03/24/75	5701	305/28E-06M02	M	19	F	7.6	296	1.50	31	2.0	22	2.2	.3	112	25	17	6.0	+14	+2	188	96	1.0	
	5701	19	F	19	C	7.6	296	1.50	31	2.0	22	2.2	.3	112	25	17	6.0	+14	+2	188	96	1.0	
09/09/75	5701	305/28E-07C01	M	20	F	7.2	378	2.10	55	1.0	23	2.2	.1	139	34	22	13.0	--	+1	240	138	0.9	
	5701	20	F	20	C	7.2	378	2.10	55	1.0	23	2.2	.1	139	34	22	13.0	--	+1	240	138	0.9	
07/07/75	5701	305/28E-07E01	M	20	F	7.4	327	1.85	36	1.0	21	2.3	.2	127	29	18	7.0	--	+2	204	118	0.8	
	5701	20	F	20	C	7.4	327	1.85	36	1.0	21	2.3	.2	127	29	18	7.0	--	+2	204	118	0.8	
10/07/74	5701	305/28E-08B01	M															.04	--				
	5701																						
07/07/75	5701																						
	5701																						
01/13/75	5701	305/28E-08M02	M	22	F	7.9	322	1.30	42	1.0	32	2.6	.5	99	25	25	12.0	+13	+2	193	82	1.5	
	5701	22	F	22	C	7.9	322	1.30	42	1.0	32	2.6	.5	99	25	25	12.0	+13	+2	193	82	1.5	
10/09/74	5701	305/28E-17A01	M	21	F	7.9	492	1.75	38	1.0	42	3.5	.7	131	40	43	26.0	--	+3	296	135	1.6	
	5701	21	F	21	C	7.9	492	1.75	38	1.0	42	3.5	.7	131	40	43	26.0	--	+3	296	135	1.6	
05/05/75	5701																						
	5701																						
09/09/75	5701	305/28E-18M01	M	19	F	7.3	395	2.33	57	1.0	25	1.8	.2	144	30	20	17.0	--	+2	253	144	0.9	
	5701	19	F	19	C	7.3	395	2.33	57	1.0	25	1.8	.2	144	30	20	17.0	--	+2	253	144	0.9	
02/12/75	5701	305/28E-18E01	M	19	F	7.8	314	1.70	55	1.0	20	1.5	.5	124	24	14	6.0	--	+2	195	168	0.8	
	5701	19	F	19	C	7.8	314	1.70	55	1.0	20	1.5	.5	124	24	14	6.0	--	+2	195	168	0.8	

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLE LWB	TEMP	FIELD LABORATORY PH FC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				REM	
				CA	MG	NA	P	CO3	PERCENT REACTANCE VALUE			R	F	TDS SUM	TH NOM		
									WCO3	SO4	CL NO3						
CENTRAL VALLEY SAN JUAN VALLEY																	
06/26/75	5121 5006	31.5/20E-25001	M	7.9	540	2.84	1.00	2.09	.17	.00	3.64	1.52	.17	--	347	190	
						47	16	34	3		59	25			367	13	1.5
06/26/75	5121 5006	31.5/20E-24001	M	7.5	540	3.34	1.00	1.62	.11	.00	3.44	1.52	.17	--	338	217	
						50	16	26	2		58	25			355	43	1.0
06/26/75	5121 5006	31.5/20E-13001	M	7.7	430	1.55	.94	2.00	.11	.00	2.74	1.00	.15	--	252	115	
						30	17	45	3		62	23			278	0	1.9
06/26/75	5121 5191	31.5/20E-32001	M	7.4	450	1.50	.94	2.18	.13	.00	2.87	1.00	.15	--	298	114	
						33	17	47	3		57	29			297	0	2.0
06/26/75	5121 5191	31.5/20E-22001	M	7.1	8600	27.34	1010	23	0	.00	3.10	1140	3.00	--	5030	1492	
						34	12	53	1		57	42			5017	1492	10.1
06/26/75	5121 5191	31.5/20E-11301	M	7.4	490	1.0	.02	1.11	.5	0	1.1	110	.65	--	347	26	
						9	99	.01	.00		29	40			347	0	9.5
06/26/75	5121 5191	31.5/20E-11301	M	7.4	330	3.0	.1	1.2	1.0	.00	.4	.5	.17	--	208	8	
						10	.01	3.13	.03	2.27	.30	.94	.55	--	208	0	11.1
						5		94	1	61		25					
06/26/75	5121 5191	31.5/20E-24001	M	7.4	380	2.37	.08	2.74	.04	.00	1.84	1.33	.53	--	203	23	
						11	2	44	1		50	40			203	0	5.7
06/26/75	5121 5191	31.5/20E-24001	M	7.1	440	1.0	.04	2.01	.06	.00	1.13	2.75	.45	--	262	40	
						20	3	77	2		26	66			262	0	4.6
06/26/75	5121 5006	31.5/20E-11301	M	7.2	360	4.0	.1	1.4	1.5	0	1.1	6.0	.34	--	226	20	
						11	.01	3.22	.04	.00	1.40	1.89			226	0	7.1
								48	1		49	46			249		
06/26/75	5121 5191	31.5/20E-11301	M	7.9	460	4.5	1.0	1.5	3.2	0	1.14	90	.51	--	244	28	
						12	.02	3.26	.08	.00	1.87	1.87			243	0	6.2
06/26/75	5121 5006	31.5/20E-13001	M	7.4	430	1.0	.04	2.78	.03	.00	1.57	1.54	.15	--	209	30	
						15	3	42	1		46	45			234	0	5.1
06/26/75	5121 5006	31.5/27E-02001	M	7.4	340	3.0	.04	.91	.00	.00	2.51	.50	.13	--	180	123	
						50	16	27	2		73	15			211	0	0.8
06/26/75	5121 5006	31.5/27E-04001	M	7.7	240	2.3	.04	.21	.04	.00	1.88	.35	.13	--	126	68	
						1.15	.0	.19	2		77	15			150	0	1.1
06/26/75	5121 5006	31.5/27E-10001	M	7.4	420	3.04	.04	1.39	.08	.00	2.97	1.71	.15	--	305	194	
						30	14	26	2		56	32			332	44	1.0
06/26/75	5121 5191	31.5/27E-12001	M	7.7	450	5.5	.04	4.0	4.0	0	1.68	52	.25	--	284	164	
						54	18	34	2		58	23			283	26	1.4
06/26/75	5121 5006	31.5/27E-14001	M	7.4	440	4.5	.04	4.0	2.4	0	1.74	51	.20	--	253	130	
						2.25	.04	1.74	.07	.00	2.88	1.06			280	0	1.5
06/26/75	5121 5191	31.5/27E-14001	M	7.4	130	1.0	.14	.00	1.7	0	.60	35	.70	--	103	32	
						.90	.15	.07	.04	.00	.94	.73			102	0	1.5
						32	10	46	3		44	40					
06/26/75	5121 5191	31.5/27E-14001	M	7.3	460	7.0	.04	4.5	4.5	0	2.28	110	.70	--	393	208	
						3.49	.04	1.46	.12	.00	3.74	2.29			391	21	1.4
						50	11	31	2		51	32					
06/26/75	5121 5191	31.5/27E-17001	M	7.7	700	7.5	.04	4.5	4.0	0	2.15	120	.26	--	402	208	
						3.74	.04	1.26	.13	.00	3.45	2.50			400	15	1.4
						60	7	11	2		51	34					

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER																								
DATE TIME	SAMPLER LAB	TRMP LABORATORY PH	FIELD FC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER EQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					REM
				CA	MG	NA	K	CO3	MC03	504	CL	NO3	8	F	TDS SUM	TH NCH	SAR							
CENTRAL VALLEY SAN JOAQUIN VALLEY																								
06/20/75	5121 5191	31C/27E-29F01	M	7.7	450	40 54	73 38	4.4 1	0	289 474	110 2930	25 71	.4 .01	.20	--	454 452	249 12	2.0					S	
06/20/75	5121 5191	31C/27E-30A01	M	7.4	370	40 230 43	3.8 2.31 49	5.3 2.0 1	0	154 252 58	62 129 29	19 56 13	.5 .01	.29	--	258 257	116 0	2.1					C S	
06/26/75	5121 5196	31C/27E-31C01	M	7.7	320	13 45 20	.8 2.44 2	5.6 .3 76	1.2 0	116 1.90 60	46 96 30	11 32 10	.5 .01	.21	--	187 213	36 8	4.1						
06/26/75	5121 5196	31C/28E-13H02	M	7.9	490	64 319 40	4.7 2.0 11	6.9 3.0 42	5.5 0	253 3.33 47	90 206 29	42 1.2 17	.5 .01	.23	--	424 447	200 33	2.1						
06/26/75	5121 5196	31C/28E-14E01	M	7.5	490	81 40 46	4.0 7.4 44	5.3 3.02 2	0	142 2.33 26	149 3.10 35	120 40 38	.5 .01	.15	--	526 547	240 123	2.5						
06/26/75	5121 5196	31C/28E-31D01	M	7.9	340	25 129 30	2.4 2.0 6	4.6 1.4 67	1.7 0	121 1.98 57	42 87 25	21 .51 18	.5 .01	.15	--	200 218	73 0	2.4						
06/26/75	5121 5196	31C/29E-31J03	M	8.1	240	80 40 15	1.3 2.0 6	4.6 2.0 76	2.8 0	111 1.92 69	33 49 24	3.9 5.0 4	.5 .01	.13	--	151 161	24 0	3.8						
06/26/75	5121 5196	31C/29E-34A01	M	7.4	280	80 40 10	2.1 1.7 7	3.4 1.91 75	3.2 0	49 1.02 94	29 60 24	11 32 13	.5 .01	.11	--	148 157	28 0	3.6						
05/23/75	5121 5196	31C/29E-02A01	M	7.4	450	77 44	2.4 23	4.0 30	8.1 2	267 4.38	98 204	46 1.31	5.5 .94	.22	--	505 526	293 72	1.5						
05/23/75	5121 5196	31C/29E-03A02	M	7.5	490	55 274 43	2.4 1.97 2.8	4.0 2.18 31	8.0 0	250 4.18 58	81 169 58	19 5.0 8	5.4 .78	.22	--	411 431	238 31	1.4						
05/23/75	5121 5196	31C/29E-04P01	M	7.4	590	53 204 43	1.1 2.44 15	5.6 1.8 19	7.0 0	201 3.29 53	72 150 24	48 1.37 22	4.0 .06	.22	--	352 373	180 15	1.8						
06/26/75	5121 5196	31C/29E-07A01	M	8.0	420	56 274 44	1.3 1.12 18	5.1 2.22 35	6.4 18	264 3.38 54	81 169 27	31 5.0 14	24.2 .39 6	.15	--	366 386	197 29	1.6						
05/23/75	5121 5196	31C/29E-11001	M	7.4	460	82 409 47	1.7 1.40 1.6	7.0 3.95 15	7.0 0	254 4.20 2	97 202 23	49 1.64 19	51.5 .83 9	.18	--	512 532	276 65	1.8						
06/26/75	5121 5196	31C/29E-11ACR01	M	7.4	740	72 359 48	1.6 1.34 18	4.6 2.15 12	4.5 0	225 3.49 49	79 164 22	47 1.33 11	50.3 .81	.09	--	437 458	248 62	1.5						
06/26/75	5121 5196	31C/29E-19001	M	7.9	730	56 209 39	1.4 2.77 10	6.2 3.67 49	0	207 3.29 46	62 171 23	40 1.71 23	34.5 .56 8	.59	--	436 459	184 14	2.6						
06/26/75	5121 5196	32C/20E-04G01	M	7.3	1350	154 708 57	6.4 5.22 5	120 5.22 38	4.0 0	72 1.74 4	578 1203 88	12 14 2	3.7 .04	.38	--	916 939	413 352	2.6						
06/26/75	5121 5196	32C/20E-14A01	M	7.5	1160	100 44 1	1.7 1.4 1	3.7 2.53 54	0	70 1.15 10	519 10.81 90	3.5 1.0 1	.5 .01	.57	--	819 835	272 214	4.0						
05/23/75	5121 5196	32C/20E-25P01	M	7.7	1800	150 744 46	1.3 1.14 1.7	172 7.44 46	8.2 0	45 1.74 10	693 14.43 88	12 3.2 3	.5 .01	.33	--	1097 1114	433 354	3.6						
06/26/75	5121 5196	32C/27E-03P01	M	7.4	430	30 150 34	5.4 2.26 12	6.2 2.8 52	3.1 0	147 241 55	74 154 35	14 42 10	.5 .01	.30	--	255 282	103 0	2.2						
06/26/75	5121 5191	32C/27E-14A01	M	7.5	440	25 125 48	8.0 2.6 14	6.3 2.74 67	5.5 0	145 3.20 65	57 119 65	17 50 10	3.1 .05	.45	--	277 276	95 0	2.8						

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLE LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER EQUIVALENTS PER LITER PERCENT				MILLIGRAMS PER LITER EQUIVALENTS PER LITER PERCENT				REMARKS					
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	H	F	TDS SUM		TH MCH	SAR			
CENTRAL VALLEY SAN JOAQUIN VALLEY																					
06/20/75	5121	32C/27E-15401	M	7.5	450	35	6.0	47	5.6	0	195	110	21	5.4	.34	--	340	112	0	2.8	5
	5191					1.75	.40	2.91	.14	.00	3.20	2.29	.00	.09							
						33	9	45	3		52	37	10	1							
06/26/75	5121	32C/27E-23401	M	7.4	770	57	10	93	5.1	0	144	227	24	4.4	.34	--	491	184	62	3.0	
	5006					2.84	.42	4.15	.13	.00	2.43	4.73	.06	.01							
						36	10	52	2		31	60	9								
06/20/75	5121	32C/27E-23401	M	7.4	840	58	12	95	6.0	0	175	200	28	4.4	.37	--	486	189	46	3.0	5
	5191					2.79	.40	4.13	.17	.00	2.87	4.16	.01	.01							
						35	12	51	2		37	53	10								
06/20/75	5121	32C/27E-24401	M	7.6	1090	71	24	113	9.5	0	141	300	30	1.3	.53	--	640	276	127	3.0	
	5191					3.54	.47	4.92	.24	.00	2.97	4.25	.09	.02							
						33	18	46	2		29	62	9								5
05/23/75	5121	32C/27E-32401	M	7.4	1910	100	30	190	10	0	35	814	60	5.0	.31	--	1293	540	509	3.6	
	5006					4.20	.43	5.27	.26	.00	3.57	4.95	1.70	.08							
						44	30	43	1		3	88	9								
06/26/75	5121	32C/20E-01001	M	8.0	240	5.0	1.3	47	2.4	0	95	38	3.4	.8	.15	--	147	18	0	4.8	
	5006					.25	.11	2.04	.07	.05	1.54	.79	.11	.01							
						10	4	A3	1		.63	32	4								
01/06/75	5003	09N/20W-29901	S	7.4	400	23	33	46	3.7	0	231	78	15	4.4	--	.3	318	196	7	1.4	E
	5003					1.10	2.77	2.02	.09	.00	3.79	1.44	.44	.08							
						19	.46	33	1		64	28	7	1							
09/25/75	5050	09N/20W-30001	S	8.4	480	4.1	12	45	2.0	2.0	211	54	11	3.9	.20	--	287	152	0	1.6	
	1010					.47	2.05	.49	1.96	.08	.67	3.46	1.04	.11							
						40	19	39	2		1	70	21	6							
09/25/75	5050	09N/20W-30001	S	8.2	484	4.14	16	45	1.7	0	144	109	11	14.0	.10	--	336	209	46	1.4	
	0900					2.84	.42	1.32	1.96	.04	.70	3.25	2.27	.31							
						46	21	42	1		54	37	5	4							
09/25/75	5050	09N/21W-25401	S	8.1	450	4.52	48	6.3	39	1.2	0	158	77	7.6	8.2	.00	--	258	146	17	1.4
	5050					.52	1.70	.03	.00	2.59	1.60	.21	.13	265							
						52	11	37	1		57	35	5	3							
08/05/75	5049	11N/10W-14400	S	7.7	650	57	16	48	--	0	314	35	11	12.4	.32	--	339	209	0	1.4	
	5006					2.84	.41	1.32	2.09	.33	.00	5.15	.73	.31							
						40	21	33			.07	11	5	3							
05/23/75	5121	11N/20W-13401	S	7.5	360	7.0	1.6	.66	4.3	0	143	43	9.2	.1	.24	--	204	26	0	5.6	
	5006					.39	.13	2.07	.11	.00	2.34	.90	.26	.00							
						11	.17	.4	.82	3	67	26	7								
05/23/75	5121	11N/20W-14401	S	8.1	1340	1.0	.1	310	7.6	0	143	493	34	9.1	.40	--	926	3	0	75.9	
	5006					.00	.01	13.49	.19	.00	2.34	1.26	.96	.15							
								.98	1		17	75	7	1							

TABLE E-2

MINOR ELEMENT ANALYSES OF GROUND WATER

Abbreviations and Codes used in this table are:

Abbreviations

D	Dissolved Concentration
T	Total Concentration
REM	Remarks

Sampler (SAMP) and Laboratory (LAB) Codes

5701	California Water Service Company
5803	Hornkohl Laboratory

TABLE E-2
MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH FEET	DISCH CFS	TEMP °F	ANALYST	CONSTITUENTS IN MILLIGRAMS PER LITER					LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REMARKS		
						SODIUM CHLORIDE	CALCIUM	MAGNESIUM	COPPER							
CENTRAL VALLEY SAN JOAQUIN VALLEY																
146/226-315-1 M																
09/11/75	5701			68	F	--	--	--	--	1.00 T	--	--	--	--	0.04 T	
	5701					--	--	--	--	0.00 T	0.00 T	--	--	--	--	
146/226-320-1 M																
05/27/75	5701			70	F	--	--	--	--	0.00 T	--	--	--	--	0.02 T	
	5701					--	--	--	--	0.00 T	0.00 T	--	--	--	--	
146/226-045-1 M																
09/18/75	5701			60	F	--	--	--	--	1.01 T	--	--	--	--	0.02 T	
	5701					--	--	--	--	1.00 T	0.00 T	--	--	--	--	
146/226-050-2 M																
09/11/75	5701			70	F	--	--	--	--	1.00 T	--	--	--	--	0.02 T	
	5701					--	--	--	--	0.00 T	0.00 T	--	--	--	--	
146/226-050-3 M																
03/03/75	5701			60	F	--	--	--	--	1.00 T	1.00 T	--	--	--	0.00 T	
	5701					--	--	--	--	1.00 T	1.00 T	--	--	--	--	
09/16/75	5701					1.000 T	0.10 T	0.000 T	0.000 T	--	0.00 T	--	0.000 T	--	0.000 T	
	5701					--	--	--	--	--	--	--	--	--	--	
146/226-050-2 M																
07/02/75	5701			70	F	--	--	--	--	0.00 T	--	--	--	--	0.06 T	
	5701					--	--	--	--	0.00 T	0.00 T	--	--	--	--	
146/226-050-1 M																
05/27/75	5701			60	F	--	--	--	--	0.00 T	--	--	--	--	0.03 T	
	5701					--	--	--	--	0.02 T	0.00 T	--	--	--	--	
146/226-060-1 M																
04/01/75	5701			67	F	--	--	--	--	0.00 T	--	--	--	--	0.00 T	
	5701					--	--	--	--	0.00 T	0.00 T	--	--	--	--	
146/226-160-1 M																
03/03/75	5701			60	F	--	--	--	--	0.00 T	--	--	--	--	0.00 T	
	5701					--	--	--	--	0.00 T	0.00 T	--	--	--	--	
05/22/75	5701					1.000 T	0.00 T	0.000 T	0.000 T	--	0.000 T	--	0.000 T	--	0.000 T	
	5701					--	--	--	--	--	--	--	--	--	--	
146/226-060-1 M																
06/18/75	5701			71	F	--	--	--	--	1.01 T	--	--	--	--	0.03 T	
	5701					--	--	--	--	0.00 T	0.00 T	--	--	--	--	
146/226-070-1 M																
04/01/75	5701			67	F	--	--	--	--	0.00 T	--	--	--	--	0.00 T	
	5701					--	--	--	--	0.00 T	0.00 T	--	--	--	--	
146/226-070-2 M																
08/18/75	5701			71	F	--	--	--	--	1.00 T	--	--	--	--	0.01 T	
	5701					--	--	--	--	1.00 T	0.00 T	--	--	--	--	
146/246-050-1 M																
10/07/74	5701			67	F	--	--	--	--	0.02 T	--	--	--	--	0.02 T	
	5701			70	F	--	--	--	--	0.00 T	0.00 T	--	--	--	--	
05/29/75	5701			60	F	--	--	--	--	0.00 T	--	--	--	--	0.02 T	
	5701					--	--	--	--	0.00 T	0.00 T	--	--	--	--	
146/246-070-2 M																
04/19/75	5701					--	--	--	--	1.00 T	--	--	--	--	0.03 T	
	5701					--	--	--	--	0.00 T	0.00 T	--	--	--	--	
146/246-050-1 M																
07/03/75	5701			67	F	--	--	--	--	1.00 T	--	--	--	--	0.02 T	
	5701					--	--	--	--	0.00 T	0.00 T	--	--	--	--	
146/246-060-1 M																
04/16/75	5701			60	F	--	--	--	--	0.00 T	--	--	--	--	0.00 T	
	5701					--	--	--	--	0.00 T	0.00 T	--	--	--	--	
146/246-100-1 M																
05/29/75	5701			67	F	--	--	--	--	0.00 T	--	--	--	--	0.01 T	
	5701					--	--	--	--	0.00 T	0.00 T	--	--	--	--	
146/246-060-1 M																
01/17/75	5701			65	F	--	--	--	--	0.00 T	--	--	--	--	0.02 T	
	5701					--	--	--	--	1.00 T	0.00 T	--	--	--	--	
146/246-060-1 M																
10/07/74	5701			67	F	--	--	--	--	1.01 T	--	--	--	--	0.04 T	
	5701			70	F	--	--	--	--	0.00 T	0.00 T	--	--	--	--	

TABLE E-2 (Continued)
MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAP LAB	DEPTH FEET	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS IN MILLIONAHS PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REM
						BARIUM CADIUM CHROM (MAX)				
CENTRAL VALLEY SAN JOAQUIN VALLEY										
18S/25E-14701 M										
04/16/75	57J1			65 F	--	--	0.00 T	--	--	--
	5701				--	--	0.00 T	--	0.01 T	
18S/25E-14702 M										
10/08/74	57J1			66 F	--	--	0.02 T	--	--	--
	5701	237		7.2	--	--	0.10 T	--	0.07 T	
02/04/75	57J1			64 F	--	--	0.00 T	--	--	--
	57J1				--	--	0.00 T	--	0.02 T	
06/04/75	57J1				0.002 T	0.07 T	0.001 T	--	--	--
	5701				0.000 T	0.000 T	--	0.000 T	0.000 T	--
18S/25E-19401 M										
04/17/75	57J1			66 F	--	--	0.00 T	--	--	--
	57J1				--	--	0.00 T	--	0.00 T	
18S/25E-20E01 M										
02/25/75	57J1				0.0030 T	0.04 T	0.000 T	0.000 T	0.0006 T	--
	5701				--	0.000 T	0.00 T	0.00 T	0.0010 T	0.00 T
18S/25E-23C11 M										
09/29/75	57J1			60 F	--	--	0.00 T	--	--	--
	57J1				--	--	0.12 T	0.02 T	--	0.01 T
18S/25E-27J11 M										
09/02/75	57J1			65 F	--	--	0.00 T	--	--	--
	57J1				--	--	0.00 T	0.00 T	--	0.02 T
18S/25E-27P01 M										
09/02/75	57J1			65 F	--	--	0.01 T	--	--	--
	57J1				--	--	0.00 T	0.00 T	--	0.04 T
18S/25E-28D01 M										
04/16/75	57J1			64 F	--	--	0.00 T	--	--	--
	57J1				--	--	0.00 T	0.00 T	--	0.00 T
18S/25E-29L01 M										
03/21/75	57J1			64 F	--	--	0.00 T	--	--	--
	5701				--	--	0.00 T	0.00 T	--	0.05 T
18S/25E-29H01 M										
05/29/75	57J1			64 F	--	--	0.00 T	--	--	--
	57J1				--	--	0.00 T	0.00 T	--	0.03 T
18S/25E-29C01 M										
02/04/75	57J1			64 F	--	--	0.00 T	--	--	--
	57J1				--	--	0.00 T	0.00 T	--	0.02 T
18S/25E-29B01 M										
02/04/75	57J1			64 F	--	--	0.00 T	--	--	--
	5701				--	--	0.00 T	0.00 T	--	0.02 T
18S/25E-30F01 M										
03/21/75	57J1			60 F	--	--	0.00 T	--	--	--
	5701				--	--	0.00 T	0.00 T	--	0.01 T
18S/25E-30P01 M										
10/07/74	57J1			66 F	--	--	0.01 T	--	--	--
	5701	39H		7.3	--	--	0.00 T	0.00 T	--	0.05 T
09/02/75	57J1			66 F	--	--	0.00 T	--	--	--
	57J1				--	--	0.00 T	0.00 T	--	0.03 T
18S/25E-30W02 M										
05/29/75	57J1			67 F	--	--	0.00 T	--	--	--
	57J1				--	--	0.00 T	0.00 T	--	0.03 T
18S/25E-31J01 M										
02/04/75	57J1			65 F	--	--	0.00 T	--	--	--
	57J1				--	--	0.00 T	0.00 T	--	0.02 T
04/17/75	57J1				0.003 T	0.04 T	0.000 T	--	0.000 T	--
	5701				--	0.000 T	--	--	--	--
18S/25E-31J03 M										
09/02/75	57J1			66 F	--	--	0.00 T	--	--	--
	57J1				--	--	0.00 T	0.00 T	--	0.01 T
18S/25E-31F01 M										
09/02/75	57J1			66 F	--	--	0.00 T	--	--	--
	5701				--	--	0.00 T	0.00 T	--	0.02 T
18S/25E-31K01 M										
02/04/75	57J1			65 F	--	--	0.00 T	--	--	--
	5701				--	--	0.00 T	0.00 T	--	0.05 T

MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	S&P LAB	DEPTH	DISC EC	TEMP PH	ARGONIC	CORROSION BARIIUM CANNIUM	IN CHROM (ALL)	PER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REMARKS
CENTRAL VALLEY SAN JOAQUIN VALLEY												
03/19/75 57:11		145/25E-31R01	M			0.00 T	0.00 T	0.00 T	0.00 T	0.00 T	--	
					0.00 T	0.00 T	--	0.00 T	0.00 T	0.00 T	0.01 T	
05/20/75 57:11		145/25E-32E01	M			--	--	0.00 T	--	--	--	
			65 F		--	--	--	0.00 T	0.00 T	--	0.01 T	
05/20/75 57:11		145/25E-32E12	M			--	--	0.00 T	--	--	--	
			65 F		--	--	--	0.00 T	0.00 T	--	0.01 T	
06/18/75 57:11		145/25E-32G01	M			--	--	0.00 T	--	--	--	
			65 F		--	--	--	0.00 T	0.00 T	--	0.02 T	
09/19/75 57:11		145/25E-32G12	M			0.00 T	--	--	0.00 T	0.00 T	--	
					0.00 T	0.00 T	--	--	--	0.00 T	--	
07/03/75 57:11		145/25E-32G01	M			--	--	0.00 T	--	--	--	
			65 F		--	--	--	0.00 T	0.00 T	--	0.00 T	
07/03/75 57:11		145/25E-31G01	M			--	--	0.00 T	--	--	--	
			65 F		--	--	--	0.00 T	0.00 T	--	0.00 T	
08/16/75 57:11		145/25E-31G01	M			--	--	0.00 T	--	--	--	
			65 F		--	--	--	0.00 T	0.00 T	--	0.00 T	
09/09/75 57:11		145/25E-32G01	M			--	--	0.00 T	--	--	--	
			65 F		--	--	--	0.00 T	0.00 T	--	0.01 T	
10/07/75 57:11		145/25E-32G01	M			--	--	0.00 T	--	--	--	
			65 F		--	--	--	0.00 T	0.00 T	--	0.01 T	
10/07/75 57:11		145/25E-32G01	M			0.00 T	0.00 T	0.00 T	--	0.0005 T	0.03 T	
			65 F		--	0.00 T	--	0.00 T	--	0.000 T	0.03 T	
07/03/75 57:11		145/25E-32G01	M			--	--	0.00 T	--	--	--	
			65 F		--	--	--	0.00 T	0.01 T	--	0.00 T	
07/03/75 57:11		145/25E-32G01	M			--	--	0.00 T	--	--	--	
			65 F		--	--	--	0.00 T	0.01 T	--	0.00 T	
07/03/75 57:11		145/25E-32G01	M			--	--	0.00 T	--	--	--	
			65 F		--	--	--	0.00 T	0.01 T	--	0.03 T	
08/16/75 57:11		145/25E-32G01	M			--	--	0.00 T	--	--	--	
			65 F		--	--	--	0.00 T	0.00 T	--	0.04 T	
10/07/75 57:11		145/25E-32G01	M			--	--	0.00 T	--	--	--	
			65 F		--	--	--	0.00 T	0.00 T	--	0.01 T	
02/04/75 57:11		145/25E-32G01	M			--	--	0.00 T	--	--	--	
			65 F		--	--	--	0.00 T	0.00 T	--	0.02 T	
08/17/75 57:11		145/25E-32G01	M			--	--	0.00 T	--	--	--	
			65 F		--	--	--	0.00 T	0.00 T	--	0.03 T	
02/12/75 57:11		145/25E-32G01	M			--	--	0.00 T	--	--	--	
			65 F		--	--	--	0.00 T	0.00 T	--	0.00 T	
10/09/75 57:11		145/25E-32G01	M			--	--	0.00 T	--	--	--	
			65 F		--	--	--	0.00 T	0.00 T	--	0.04 T	
03/26/75 57:11		145/25E-32G01	M			--	--	0.00 T	--	--	--	
			65 F		--	--	--	0.00 T	0.00 T	--	0.01 T	
05/12/75 57:11		145/25E-32G01	M			0.00 T	0.00 T	0.00 T	--	0.000 T	0.00 T	
			65 F		--	0.00 T	--	0.00 T	0.00 T	0.000 T	0.00 T	
08/04/75 57:11		145/25E-32G01	M			--	--	0.00 T	--	--	--	
			65 F		--	--	--	0.00 T	0.00 T	--	0.04 T	

TABLE E-2 (Continued)

MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	S&P LAB	DEPTH	DISCH EC	TEMP F	ARSENIC	BARIUM COPPER	CHROM CHROM (HFA)	CHROM (ALL)	COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REMARKS
CENTRAL VALLEY SAN JOAQUIN VALLEY													
29C/27E-25R01				M									
01/13/75	5701			65 F	--	--	--	--	0.00 T	--	--	--	
	5711				--	--	--	--	0.00 T	0.00 T	--	0.03 T	
29C/27E-26J01				M									
07/07/75	5711			65 F	--	--	--	--	0.00 T	--	--	--	
	5711				--	--	--	--	0.00 T	0.00 T	--	0.04 T	
29C/27E-35A02				M									
08/04/75	5711			68 F	--	--	--	--	0.00 T	--	--	--	
	5701				--	--	--	--	0.00 T	0.00 T	--	0.06 T	
29C/27E-35F01				M									
03/24/75	5711			65 F	--	--	--	--	0.00 T	--	--	--	
	5701				--	--	--	--	0.00 T	0.04 T	--	0.03 T	
29C/27E-35G01				M									
08/04/75	5711			67 F	--	--	--	--	0.00 T	--	--	--	
	5711				--	--	--	--	0.00 T	0.01 T	--	0.06 T	
29C/27E-36H01				M									
09/09/75	5711			67 F	--	--	--	--	0.01 T	--	--	--	
	5711				--	--	--	--	0.01 T	0.00 T	--	0.00 T	
29C/27E-36K01				M									
10/19/74	5711			65 F	--	--	--	--	0.00 T	--	--	--	
	5711	25A		7.4	--	--	--	--	0.00 T	0.00 T	--	0.02 T	
08/04/75	5711			66 F	--	--	--	--	0.00 T	--	--	--	
	5711				--	--	--	--	0.00 T	0.00 T	--	0.00 T	
29C/27E-36K02				M									
10/19/74	5711			66 F	--	--	--	--	0.00 T	--	--	--	
	5711	25A		7.4	--	--	--	--	0.00 T	0.00 T	--	0.00 T	
03/24/75	5711			65 F	--	--	--	--	0.00 T	--	--	--	
	5711				--	--	--	--	0.00 T	0.00 T	--	0.01 T	
29C/27E-16E01				M									
08/04/75	5711			66 F	--	--	--	--	0.00 T	--	--	--	
	5711				--	--	--	--	0.04 T	0.10 T	--	0.05 T	
29C/28E-16H01				M									
02/12/75	5701			71 F	0.0000 T	0.14 T	0.000 T	0.000 T	0.00 T	0.000 T	0.0000 T	--	
	5701				--	--	--	--	0.00 T	0.00 T	--	0.01 T	
02/18/75	5711			70 F	--	--	--	--	0.00 T	--	--	--	
	5701				--	--	--	--	0.00 T	0.04 T	--	0.02 T	
29C/28E-16Q01				M									
06/04/75	5711			78 F	--	--	--	--	0.00 T	--	--	--	
	5711				--	--	--	--	0.02 T	0.01 T	--	0.01 T	
29C/28E-16R01				M									
07/07/75	5711			78 F	--	--	--	--	0.01 T	--	--	--	
	5711				--	--	--	--	0.02 T	0.09 T	--	0.02 T	
29C/28E-17Q01				M									
06/04/75	5711			70 F	--	--	--	--	0.00 T	--	--	--	
	5711				--	--	--	--	0.06 T	0.00 T	--	0.03 T	
29C/28E-19J02				M									
01/13/75	5711			67 F	--	--	--	--	0.00 T	--	--	--	
	5711				--	--	--	--	0.00 T	0.02 T	--	0.04 T	
29C/28E-19J03				M									
01/13/75	5711			69 F	--	--	--	--	0.01 T	--	--	--	
	5711				--	--	--	--	0.00 T	0.03 T	--	0.03 T	
29C/28E-19L01				M									
03/24/75	5711			65 F	--	--	--	--	0.00 T	--	--	--	
	5711				--	--	--	--	0.00 T	0.01 T	--	0.01 T	
29C/28E-19M02				M									
08/04/75	5711			68 F	--	--	--	--	0.00 T	--	--	--	
	5711				--	--	--	--	0.00 T	0.00 T	--	0.04 T	
29C/28E-19J01				M									
06/04/75	5711			66 F	--	--	--	--	0.00 T	--	--	--	
	5711				--	--	--	--	0.00 T	0.01 T	--	0.00 T	
29C/28E-20A01				M									
02/12/75	5711			73 F	--	--	--	--	0.00 T	--	--	--	
	5711				--	--	--	--	0.00 T	0.07 T	--	0.02 T	

TABLE E-2 (Continued)

MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SHAFT LAB	DEPTH FEET	DISCH FEET	TEMP F	ARSENIC	CONSTITUENTS IN MILLIGRAMS PER LITER			LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REMARKS
						SODIUM CARIUM	CHROMIUM (MEQ)	COPPER IRON				
CENTRAL VALLEY SAN JOAQUIN VALLEY												
245/20L=2000P M												
03/24/75	5714 5711			72 F	--	--	--	0.00 T 0.00 T	-- 0.10 T	--	-- 0.01 T	
245/20L=2000P M												
05/05/75	5711 5711			76 F	--	--	--	0.00 T 0.00 T	-- 0.01 T	--	-- 0.01 T	
245/20L=2000P M												
05/05/75	5711 5711			72 F	--	--	--	0.01 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
245/20L=2100P M												
07/07/75	5711 5711			77 F	--	--	--	0.01 T 0.00 T	-- 0.10 T	--	-- 0.00 T	
245/20L=2100P M												
07/07/75	5711 5711			76 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.01 T	
245/20L=2100P M												
03/24/75	5711 5711			76 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.01 T	
245/20L=2100P M												
05/05/75	5711 5711			78 F	--	--	--	0.00 T 0.00 T	-- 0.01 T	--	-- 0.01 T	
245/20L=2100P M												
01/11/75	5711 5711			76 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
245/20L=2000P M												
01/13/75	5711 5711			70 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
245/20L=2000P M												
06/04/75	5711 5711			70 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
245/20L=2000P M												
06/04/75	5711 5711			70 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
245/20L=2000P M												
06/04/75	5711 5711			80 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
245/20L=2000P M												
09/09/75	5711 5711			68 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
245/20L=2000P M												
06/04/75	5711 5711			66 F	--	--	--	0.01 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
245/20L=2000P M												
07/07/75	5711 5711			67 F	--	--	--	0.01 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
245/20L=2000P M												
07/07/75	5711 5711			68 F	--	--	--	0.01 T 0.00 T	-- 0.01 T	--	-- 0.00 T	
245/20L=2000P M												
11/11/75	5711 5711			68 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
245/20L=2000P M												
05/05/75	5711 5711			60 F	--	--	--	0.01 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
245/20L=2000P M												
06/04/75	5711 5711			68 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
245/20L=2000P M												
06/04/75	5711 5711			68 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
245/20L=2000P M												
06/04/75	5711 5711			66 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.00 T	

TABLE E-2 (Continued)
MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS BARIUM CADMIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	COPPER INON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY											
06/04/75	5731 5731		66 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
05/05/75	5731 5731		67 F	0.000 T	0.17 0.000 T	0.000 T	0.00 T 0.00 T	0.00 T 0.00 T	0.000 T 0.000 T	-- 0.03 T	
01/13/75	5731 5731		67 F	--	--	--	0.00 T 0.00 T	-- 0.01 T	--	-- 0.04 T	
03/13/75	5731 5731		67 F	0.0040 T	0.000 T 0.000 T	0.001 T	0.00 T 0.00 T	0.000 T 0.00 T	0.0000 T 0.0010 T	-- 0.00 T	
01/13/75	5731 5731		68 F	0.000 T	0.000 T 0.000 T	0.000 T	-- 0.00 T	0.00 T 0.00 T	0.000 T 0.000 T	-- 0.02 T	
08/04/75	5731 5731		69 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.05 T	
03/24/75	5731 5731		66 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.01 T	
06/04/75	5731 5731		70 F	--	--	--	0.00 T 0.03 T	-- 0.01 T	--	-- 0.02 T	
08/04/75	5731 5731		71 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
07/07/75	5731 5731		70 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.04 T	
08/04/75	5731 5731		71 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.03 T	
05/14/75	5731 5731		77 F	--	--	--	0.02 T 0.04 T	-- 0.02 T	--	-- 0.06 T	
05/05/75	5731 5731		78 F	--	--	--	0.01 T 0.00 T	-- 0.00 T	--	-- 0.04 T	
05/14/75	5731 5731		79 F	--	--	--	0.00 T 0.01 T	-- 0.00 T	--	-- 0.02 T	
05/05/75	5731 5731		66 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.03 T	
06/04/75	5731 5731		68 F	--	--	--	0.00 T 0.03 T	-- 0.00 T	--	-- 0.03 T	
07/07/75	5731 5731		66 F	--	--	--	0.00 T 0.00 T	-- 0.01 T	--	-- 0.01 T	
05/05/75	5731 5731		67 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
09/09/75	5731 5731		65	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.05 T	
01/13/75	5731 5731		65 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.05 T	
08/04/75	5731 5731		67 F	--	--	--	0.00 T 0.02 T	-- 0.00 T	--	-- 0.05 T	

TABLE E-2 (Continued)

MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH FT	ISCH FC	TEMP DEG	ARSENIC	BARIUM CALCIUM	CHROM (ALL) CHROM (HEX)	COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
09/09/75	5711 5711			67 F	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	0.05 T --	
10/09/74	5711 5711	140		65 F 7.2	--	--	--	1.00 T 1.00 T	-- 0.00 T	--	-- 0.00 T	
10/09/74	5711 5711			65 F 7.2	--	--	--	1.00 T 1.00 T	-- 0.00 T	--	-- 0.06 T	
02/12/75	5711 5711			65 F	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
10/09/74	5711 5711			66 F 7.1	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
10/07/74	5711 5711			66 F 7.1	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
05/05/75	5711 5711			67 F	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
10/09/74	5711 5711			66 F 7.1	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
09/09/75	5711 5711			67 F	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
10/09/74	5711 5711			65 F 7.1	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
02/12/75	5711 5711			66 F	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
02/18/75	5711 5711			66 F	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
10/09/74	5711 5711			66 F 7.1	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
02/12/75	5711 5711			66 F	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
07/07/75	5711 5711			66 F	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
05/05/75	5711 5711			66 F	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
07/07/75	5711 5711			67 F	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
03/24/75	5711 5711			66 F	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
02/12/75	5711 5711			70 F	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
09/10/75	5711 5711			67 F	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
01/13/75	5711 5711			66 F	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
02/03/75	5711 5711			66 F	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	

TABLE E-2 (Continued)

MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	WISCH FC	TEMP PH	ARSENIC	CONSTITUENTS BARIUM CADMIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
305/28E-05K01 M												
03/24/75	5701	68	F	--	--	--	--	0.00 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.01 T	
305/28E-05K01 M												
02/12/75	5701	70	F	--	--	--	--	0.00 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.00 T	
305/28E-06C02 M												
09/10/75	5701	66	F	--	--	--	--	0.00 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.00 T	
305/28E-06C03 M												
05/05/75	5701	66	F	--	--	--	--	0.00 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.00 T	
305/28E-06G02 M												
08/04/75	5701	67	F	--	--	--	--	0.00 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.00 T	
305/28E-06H02 M												
03/24/75	5701	66	F	--	--	--	--	0.00 T	0.00 T	0.0000 T	--	--
	5701				0.000 T	0.000 T	0.000 T	0.00 T	0.01 T	0.000 T	0.00 T	
305/28E-07C01 M												
09/09/75	5701	68	F	--	--	--	--	0.01 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.00 T	
305/28E-07E01 M												
07/07/75	5701	68	F	--	--	--	--	0.01 T	--	--	--	--
	5701							0.01 T	0.00 T	--	0.00 T	
305/28E-08H01 M												
10/07/74	5701				--	--	--	0.00 T	0.00 T	0.0000 T	--	--
	5701				0.0119 T	0.000 T	--	--	--	0.000 T	0.00 T	
07/07/75	5701	60	F	--	--	--	--	0.00 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.00 T	
305/28E-08H02 M												
01/13/75	5701	72	F	--	--	--	--	0.00 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.00 T	
305/28E-17A01 M												
10/09/74	5701	70	F	--	--	--	--	0.00 T	--	--	--	--
	5701	492						0.00 T	0.00 T	--	0.00 T	
05/05/75	5701	70	F	--	--	--	--	0.00 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.00 T	
305/28E-18H01 M												
09/09/75	5701	60	F	--	--	--	--	0.01 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.00 T	
305/28E-18E01 M												
02/12/75	5701	67	F	--	--	--	--	0.00 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.00 T	
09H/20E-29P01 S												
01/06/75	5803				--	--	--	--	--	--	--	--
	5803				0.01 T	--	--	0.1 T	0.0 T	--	--	--

TABLE E-3
SUPPLEMENTAL MINOR ELEMENT ANALYSES OF GROUND WATER

Abbreviations and Codes used in this table are:

Abbreviations

T Total Concentration

REM Remarks

Sampler (SAMP) and Laboratory (LAB) Codes

5701 California Water Service Company

TABLE E-3

CENTRAL VALLEY
SAN JOAQUIN VALLEY

TABLE E-3 (Continued)
SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB DEPTH	DISCH EC	TEMP °F	ALUMINUM	CONSTITUENTS IN MILLIGRAMS PER LITER ANTHRACENE BERYLLIUM BISMUTH COPPER GERMANIUM LITHIUM MOLYBDENUM NICKEL STRONTIUM TITANIUM VANADIUM	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY						
18C/25E-14002 M						
10/08/74	5731	237	68 F	--	--	--
02/04/75	5731		64 F	--	--	--
18C/25E-14041 M						
04/17/75	5731		68 F	--	--	--
18C/25E-20E11 M						
02/25/75	5731			--	--	--
18C/25E-23001 M						
09/29/75	5731		69 F	--	--	--
18C/25E-27001 M						
09/02/75	5731		65 F	--	--	--
18C/25E-27001 M						
09/02/75	5731		65 F	--	--	--
18C/25E-28001 M						
04/16/75	5731		64 F	--	--	--
18C/25E-28001 M						
03/21/75	5731		64 F	--	--	--
18C/25E-28001 M						
05/29/75	5731		64 F	--	--	--
18C/25E-29001 M						
02/04/76	5731		64 F	--	--	--
18C/25E-29001 M						
02/04/75	5731		64 F	--	--	--
18C/25E-30001 M						
03/21/75	5731		66 F	--	--	--
18C/25E-30001 M						
10/07/74	5731	348	68 F	--	--	--
09/02/75	5731		66 F	--	--	--
18C/25E-30002 M						
05/29/75	5731		67 F	--	--	--
18C/25E-31001 M						
02/04/75	5731		65 F	--	--	--
18C/25E-31001 M						
09/02/75	5731		66 F	--	--	--
18C/25E-31001 M						
09/02/75	5731		66 F	--	--	--
18C/25E-31001 M						
02/04/75	5731		65 F	--	--	--
18C/25E-31001 M						
03/19/76	5731			--	--	--
18C/25E-32001 M						
05/29/75	5731		65 F	--	--	--

TABLE E-3 (Continued)
SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH FEET	DISCH FC	TEMP F	ALUMINUM	CONSTITUENTS IN MILLIGRAMS PER LITER ANTIMONY BERYLLIUM	ARSENIC COBALT	BIOMETHYL GERMANIUM	LITHIUM MOLYBDENUM	NICKEL STRONTIUM	TITANIUM VANADIUM	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
145/25E-32E02 M												
05/29/75	57J1			65 F	--	--	--	--	0.000 T	--	--	
	57J1				--	--	--	--	--	0.26 T	--	
145/25E-32E01 M												
04/18/75	57J1			66 F	--	--	--	--	0.001 T	--	--	
	57J1				--	--	--	--	--	0.30 T	--	
145/25E-32E01 M												
07/03/75	57J1			66 F	--	--	--	--	0.003 T	--	--	
	57J1				--	--	--	--	--	0.22 T	--	
145/24E-010E01 M												
07/03/75	57J1			65 F	--	--	--	--	0.004 T	--	--	
	57J1				--	--	--	--	--	0.54 T	--	
145/24E-011E01 M												
04/16/75	57J1			64 F	--	--	--	--	0.004 T	--	--	
	57J1				--	--	--	--	--	0.56 T	--	
145/24E-012E01 M												
09/02/75	57J1			67 F	--	--	--	--	0.000 T	--	--	
	57J1				--	--	--	--	--	0.42 T	--	
145/25E-05E01 M												
10/07/75	57J1			65 F	--	--	--	--	0.000 T	--	--	
	57J1	210			--	--	--	--	--	0.24 T	--	
145/25E-05E01 M												
07/03/75	57J1			66 F	--	--	--	--	0.000 T	--	--	
	57J1				--	--	--	--	--	0.26 T	--	
145/25E-08E01 M												
07/03/75	57J1			66 F	--	--	--	--	0.000 T	--	--	
	57J1				--	--	--	--	--	0.22 T	--	
145/25E-08E01 M												
07/03/75	57J1			65 F	--	--	--	--	0.002 T	--	--	
	57J1				--	--	--	--	--	0.38 T	--	
145/25E-07E01 M												
04/16/75	57J1			65 F	--	--	--	--	0.001 T	--	--	
	57J1				--	--	--	--	--	0.44 T	--	
145/25E-10E02 M												
10/07/75	57J1			67 F	--	--	--	--	0.000 T	--	--	
	57J1	147			--	--	--	--	--	0.36 T	--	
145/25E-13E03 M												
04/17/75	57J1			65 F	--	--	--	--	0.002 T	--	--	
	57J1				--	--	--	--	--	0.42 T	--	
145/27E-23E01 M												
02/12/75	57J1			60 F	--	--	--	--	0.006 T	--	--	
	57J1				--	--	--	--	--	0.22 T	--	
145/27E-24E01 M												
10/09/75	57J1			63 F	--	--	--	--	0.005 T	--	--	
	57J1	227		7.3	--	--	--	--	--	0.20 T	--	
145/27E-25E01 M												
03/24/75	57J1			62 F	--	--	--	--	0.006 T	--	--	
	57J1				--	--	--	--	--	0.02 T	--	
145/27E-25E01 M												
05/12/75	57J1			64 F	--	--	--	--	0.000 T	--	--	
	57J1				--	--	--	--	--	0.26 T	--	
145/27E-25E01 M												
08/04/75	57J1			65 F	--	--	--	--	0.004 T	--	--	
	57J1				--	--	--	--	--	0.23 T	--	
145/27E-25E01 M												
01/13/75	57J1			65 F	--	--	--	--	0.004 T	--	--	
	57J1				--	--	--	--	--	0.24 T	--	
145/27E-25E01 M												
07/07/75	57J1			65 F	--	--	--	--	0.004 T	--	--	
	57J1				--	--	--	--	--	0.22 T	--	
145/27E-25E01 M												
08/04/75	57J1			66 F	--	--	--	--	0.006 T	--	--	
	57J1				--	--	--	--	--	0.19 T	--	
145/27E-25E01 M												
03/24/75	57J1			65 F	--	--	--	--	0.004 T	--	--	
	57J1				--	--	--	--	--	0.27 T	--	

TABLE E-3 (Continued)
SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	S&P LAB	DEPTH	ISCH FC	TEMP F	ALUMINUM	CONSTITUENTS ANTIMONY ARSENIC BARIUM BERYLLIUM BORON BROMINE COPPER CHLORINE CHROMIUM COBALT Cadmium Cyanide Fluoride Gallium Germanium Iodine Iron Lead Lithium Manganese Mercury Molybdenum Nickel Nitrate Nitrite Phosphorus Silver Selenium Silica Sulfate Sulfide Thallium Thoron Vanadium Zinc Zirconium	IN MILLIGRAMS PER LITER	PER LITER	LITHIUM MOLYBDENUM	NICKEL STRONTIUM	TITANIUM VANADIUM	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
08/04/75	5701	5701		67 F	--	--	--	--	0.004 T	--	--	--
294/27E-34GR1									--	0.19 T	--	--
09/09/75	5701	5701		67 F	--	--	--	--	0.018 T	--	--	--
294/27E-34GR1									--	0.22 T	--	--
10/18/74	5701	5701		65 F	--	--	--	--	0.005 T	--	--	--
284				7.4					--	0.28 T	--	--
08/04/75	5701	5701		60 F	--	--	--	--	0.011 T	--	--	--
294/27E-34GR2									--	0.26 T	--	--
10/18/74	5701	5701		60 F	--	--	--	--	0.008 T	--	--	--
284				7.4					--	0.25 T	--	--
03/24/75	5701	5701		65 F	--	--	--	--	0.009 T	--	--	--
244/20E-14GR1									--	0.28 T	--	--
08/04/75	5701	5701		66 F	--	--	--	--	0.006 T	--	--	--
294/20E-14GR1									--	0.28 T	--	--
02/12/75	5701	5701		71 F	--	--	--	--	0.002 T	--	--	--
5704									--	0.24 T	--	--
02/18/75	5701	5701		70 F	--	--	--	--	0.000 T	--	--	--
5701									--	0.26 T	--	--
08/04/75	5701	5701		76 F	--	--	--	--	0.004 T	--	--	--
294/20E-14GR1									--	0.28 T	--	--
07/07/75	5701	5701		74 F	--	--	--	--	0.000 T	--	--	--
5701									--	0.35 T	--	--
06/04/75	5701	5701		76 F	--	--	--	--	0.002 T	--	--	--
5701									--	0.22 T	--	--
294/20E-14GR2									--	0.22 T	--	--
01/13/75	5701	5701		67 F	--	--	--	--	0.000 T	--	--	--
5701									--	0.22 T	--	--
294/20E-14GR3									--	0.22 T	--	--
01/13/75	5701	5701		69 F	--	--	--	--	0.002 T	--	--	--
5701									--	0.18 T	--	--
294/20E-14GR1									--	0.28 T	--	--
03/24/75	5701	5701		65 F	--	--	--	--	0.000 T	--	--	--
5701									--	0.28 T	--	--
294/20E-14GR2									--	0.28 T	--	--
08/04/75	5701	5701		68 F	--	--	--	--	0.004 T	--	--	--
5701									--	0.28 T	--	--
294/20E-14GR3									--	0.28 T	--	--
06/04/75	5701	5701		66 F	--	--	--	--	0.002 T	--	--	--
5701									--	0.28 T	--	--
294/20E-14GR1									--	0.28 T	--	--
02/12/75	5701	5701		73 F	--	--	--	--	0.002 T	--	--	--
5701									--	0.34 T	--	--
294/20E-14GR2									--	0.34 T	--	--
03/24/75	5701	5701		72 F	--	--	--	--	0.000 T	--	--	--
5701									--	0.28 T	--	--
294/20E-14GR1									--	0.28 T	--	--
05/05/75	5701	5701		76 F	--	--	--	--	0.001 T	--	--	--
5701									--	0.28 T	--	--
294/20E-14GR1									--	0.28 T	--	--
05/05/75	5701	5701		72 F	--	--	--	--	0.004 T	--	--	--
5701									--	0.50 T	--	--
294/20E-14GR1									--	0.50 T	--	--
07/07/75	5701	5701		77 F	--	--	--	--	0.002 T	--	--	--
5701									--	0.78 T	--	--

TABLE E-3 (Continued)

SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB DEPTH	DISCH FC	TEMP PH	ALUMINUM	CONSTITUENTS IN MILLIGRAMS PER LITER ANTIMONY BERYLLIUM	ARSENIC COPPER	BARIUM COPPER	GALLIUM GERMANIUM	LITHIUM MOLYBDENUM	NICKEL STRONTIUM	TITANIUM VANADIUM	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
296/28E-21001 M												
07/07/75	5701		76 F	--	--	--	--	--	0.002 T	--	--	
	5701			--	--	--	--	--	--	0.34 T	--	
296/28E-21101 M												
03/24/75	5701		76 F	--	--	--	--	--	0.000 T	--	--	
	5701			--	--	--	--	--	--	0.44 T	--	
296/28E-21201 M												
05/05/75	5701		78 F	--	--	--	--	--	0.004 T	--	--	
	5701			--	--	--	--	--	--	0.38 T	--	
296/28E-21301 M												
01/13/75	5701		76 F	--	--	--	--	--	0.002 T	--	--	
	5701			--	--	--	--	--	--	0.34 T	--	
296/28E-21401 M												
01/13/75	5701		70 F	--	--	--	--	--	0.000 T	--	--	
	5701			--	--	--	--	--	--	0.30 T	--	
296/28E-21501 M												
06/04/75	5701		70 F	--	--	--	--	--	0.004 T	--	--	
	5701			--	--	--	--	--	--	0.34 T	--	
296/28E-21601 M												
06/04/75	5701		70 F	--	--	--	--	--	0.002 T	--	--	
	5701			--	--	--	--	--	--	0.28 T	--	
296/28E-21701 M												
06/04/75	5701		68 F	--	--	--	--	--	0.002 T	--	--	
	5701			--	--	--	--	--	--	0.22 T	--	
296/28E-31001 M												
09/09/75	5701		68 F	--	--	--	--	--	0.002 T	--	--	
	5701			--	--	--	--	--	--	0.22 T	--	
296/28E-31101 M												
06/04/75	5701		66 F	--	--	--	--	--	0.008 T	--	--	
	5701			--	--	--	--	--	--	0.36 T	--	
296/28E-31201 M												
07/07/75	5701		67 F	--	--	--	--	--	0.002 T	--	--	
	5701			--	--	--	--	--	--	0.34 T	--	
296/28E-31301 M												
07/07/75	5701		68 F	--	--	--	--	--	0.002 T	--	--	
	5701			--	--	--	--	--	--	0.28 T	--	
296/28E-31401 M												
11/11/74	5701		66 F	--	--	--	--	--	0.002 T	--	--	
	5701	324	74 F	--	--	--	--	--	--	0.36 T	--	
296/28E-31501 M												
05/05/75	5701		66 F	--	--	--	--	--	0.006 T	--	--	
	5701			--	--	--	--	--	--	0.32 T	--	
296/28E-31601 M												
06/04/75	5701		68 F	--	--	--	--	--	0.010 T	--	--	
	5701			--	--	--	--	--	--	0.26 T	--	
296/28E-31701 M												
08/04/75	5701		68 F	--	--	--	--	--	0.009 T	--	--	
	5701			--	--	--	--	--	--	0.29 T	--	
296/28E-31801 M												
06/04/75	5701		66 F	--	--	--	--	--	0.008 T	--	--	
	5701			--	--	--	--	--	--	0.32 T	--	
296/28E-31901 M												
06/04/75	5701		66 F	--	--	--	--	--	0.004 T	--	--	
	5701			--	--	--	--	--	--	0.40 T	--	
296/28E-31002 M												
05/05/75	5701		67 F	--	--	--	--	--	0.014 T	--	--	
	5701			--	--	--	--	--	--	0.42 T	--	
296/28E-31102 M												
01/13/75	5701		67 F	--	--	--	--	--	0.002 T	--	--	
	5701			--	--	--	--	--	--	0.20 T	--	
296/28E-31202 M												
03/13/75	5701		67 F	--	--	--	--	--	0.002 T	--	--	
	5701			--	--	--	--	--	--	0.24 T	--	
296/28E-31302 M												
01/13/75	5701		68 F	--	--	--	--	--	0.002 T	--	--	
	5701			--	--	--	--	--	--	0.26 T	--	

TABLE E-3 (Continued)

SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH FC	TEMP PH	CONSTITUENTS IN MILLIGRAMS										REMARKS
					ALUMINUM	ANTIMONY	BERYLLIUM	ARSENIC	COPPER	CHROMIUM	COBALT	IRON	LEAD	LITHIUM	
CENTRAL VALLEY															
SAN JUANITO VALLEY															
08/04/75	5701			69	F	--	--	--	--	--	0.113 T	--	--		
	5701					--	--	--	--	--	--	0.27 T	--		
03/24/75	5701			66	F	--	--	--	--	--	0.112 T	--	--		
	5701					--	--	--	--	--	--	0.40 T	--		
06/04/75	5701			70	F	--	--	--	--	--	0.106 T	--	--		
	5701					--	--	--	--	--	--	1.44 T	--		
08/04/75	5701			71	F	--	--	--	--	--	0.107 T	--	--		
	5701					--	--	--	--	--	--	1.45 T	--		
07/07/75	5701			70	F	--	--	--	--	--	0.108 T	--	--		
	5701					--	--	--	--	--	--	0.62 T	--		
08/04/75	5701			71	F	--	--	--	--	--	0.110 T	--	--		
	5701					--	--	--	--	--	--	0.93 T	--		
05/14/75	5701			77	F	--	--	--	--	--	0.111 T	--	--		
	5701					--	--	--	--	--	--	2.00 T	--		
05/05/75	5701			78	F	--	--	--	--	--	0.114 T	--	--		
	5701					--	--	--	--	--	--	0.60 T	--		
05/14/75	5701			79	F	--	--	--	--	--	0.108 T	--	--		
	5701					--	--	--	--	--	--	0.62 T	--		
05/05/75	5701			66	F	--	--	--	--	--	0.106 T	--	--		
	5701					--	--	--	--	--	--	0.30 T	--		
06/04/75	5701			68	F	--	--	--	--	--	0.102 T	--	--		
	5701					--	--	--	--	--	--	0.68 T	--		
07/07/75	5701			68	F	--	--	--	--	--	0.110 T	--	--		
	5701					--	--	--	--	--	--	0.36 T	--		
05/05/75	5701			67	F	--	--	--	--	--	0.116 T	--	--		
	5701					--	--	--	--	--	--	0.46 T	--		
09/09/75	5701			65	F	--	--	--	--	--	0.114 T	--	--		
	5701					--	--	--	--	--	--	0.36 T	--		
01/13/75	5701			65	F	--	--	--	--	--	0.104 T	--	--		
	5701					--	--	--	--	--	--	0.30 T	--		
08/04/75	5701			67	F	--	--	--	--	--	0.108 T	--	--		
	5701					--	--	--	--	--	--	0.30 T	--		
09/09/75	5701			67	F	--	--	--	--	--	0.106 T	--	--		
	5701					--	--	--	--	--	--	0.38 T	--		
10/09/74	5701			65	F	--	--	--	--	--	0.109 T	--	--		
	5701			34.2	7.2	--	--	--	--	--	--	0.34 T	--		
10/09/74	5701			65	F	--	--	--	--	--	0.112 T	--	--		
	5701			34.1	7.4	--	--	--	--	--	--	0.38 T	--		
02/12/75	5701			65	F	--	--	--	--	--	0.108 T	--	--		
	5701					--	--	--	--	--	--	0.24 T	--		
10/09/74	5701			66	F	--	--	--	--	--	0.114 T	--	--		
	5701			44	7.1	--	--	--	--	--	--	0.45 T	--		

TABLE E-3 (Continued)
SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH FEET	DISC FC	TEMP F	ALUMINUM	ANTIMONY BERTELLEUM	ARSENIC CORAL	PER LITER GALLIUM GERMANIUM	LITHIUM MOLYBDENUM	NICKEL STROMIUM	TITANIUM VANADIUM	REM
CENTRAL VALLEY SAG JACQUIN VALLEY												
05/05/75	5701			67 F	--	--	--	--	0.024 T	--	--	
	5701				--	--	--	--	--	0.52 T	--	
10/09/74	5701		66 F		--	--	--	--	0.016 T	--	--	
	5701	405	7.3		--	--	--	--	--	0.44 T	--	
09/09/75	5701			67 F	--	--	--	--	0.014 T	--	--	
	5701				--	--	--	--	--	0.24 T	--	
10/09/74	5701		66 F		--	--	--	--	0.015 T	--	--	
	5701	349	7.1		--	--	--	--	--	0.38 T	--	
02/12/75	5701			64 F	--	--	--	--	0.010 T	--	--	
	5701				--	--	--	--	--	0.28 T	--	
02/14/75	5701			66 F	--	--	--	--	0.012 T	--	--	
	5701				--	--	--	--	--	0.26 T	--	
10/09/74	5701		66 F		--	--	--	--	0.010 T	--	--	
	5701	262	7.1		--	--	--	--	--	0.26 T	--	
02/12/75	5701			64 F	--	--	--	--	0.008 T	--	--	
	5701				--	--	--	--	--	0.24 T	--	
07/07/75	5701			64 F	--	--	--	--	0.012 T	--	--	
	5701				--	--	--	--	--	0.34 T	--	
05/05/75	5701			64 F	--	--	--	--	0.014 T	--	--	
	5701				--	--	--	--	--	0.36 T	--	
07/07/75	5701			67 F	--	--	--	--	0.014 T	--	--	
	5701				--	--	--	--	--	0.36 T	--	
03/24/75	5701			64 F	--	--	--	--	0.010 T	--	--	
	5701				--	--	--	--	--	0.22 T	--	
02/12/75	5701			70 F	--	--	--	--	0.012 T	--	--	
	5701				--	--	--	--	--	0.54 T	--	
09/10/75	5701			67 F	--	--	--	--	0.018 T	--	--	
	5701				--	--	--	--	--	0.42 T	--	
01/13/75	5701			66 F	--	--	--	--	0.008 T	--	--	
	5701				--	--	--	--	--	0.42 T	--	
02/03/75	5701			64 F	--	--	--	--	0.010 T	--	--	
	5701				--	--	--	--	--	0.40 T	--	
03/24/75	5701			60 F	--	--	--	--	0.010 T	--	--	
	5701				--	--	--	--	--	0.38 T	--	
09/10/75	5701			66 F	--	--	--	--	0.013 T	--	--	
	5701				--	--	--	--	--	0.42 T	--	
05/05/75	5701			66 F	--	--	--	--	0.014 T	--	--	
	5701				--	--	--	--	--	0.40 T	--	
08/04/75	5701			67 F	--	--	--	--	0.014 T	--	--	
	5701				--	--	--	--	--	0.42 T	--	
03/24/75	5701			66 F	--	--	--	--	0.006 T	--	--	
	5701				--	--	--	--	--	0.32 T	--	

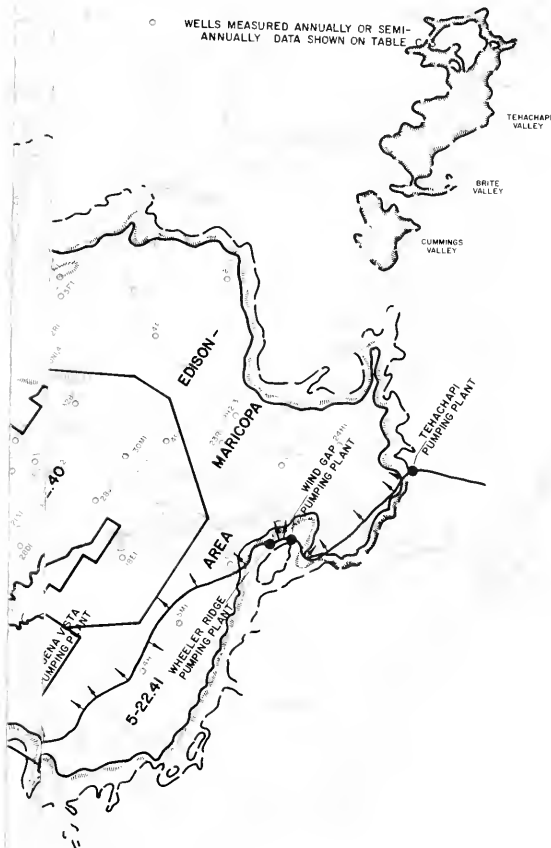
TABLE E-3 (Continued)

SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER												
DATE TIME	SAMP LAB	DEPTH	DISCH FC	TEMP D	CONSTITUENTS IN MILLIGRAMS PER LITER							
					ALUMINUM	ANTIMONY	BERYLLIUM	RISMUTH	GALLIUM	LITHIUM	NICKEL	TITANIUM
								COBALT	GERMANIUM	MOLYBDENUM	STRONTIUM	Vanadium
												REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
305/20E-07C01 M												
09/09/75	5701			68 F	--	--	--	--	--	0.018 T	--	--
	5701				--	--	--	--	--	--	0.02 T	--
305/20E-07E01 M												
07/07/75	5701			68 F	--	--	--	--	--	0.016 T	--	--
	5701				--	--	--	--	--	--	0.06 T	--
305/20E-08H01 M												
07/07/75	5701			69 F	--	--	--	--	--	0.010 T	--	--
	5701				--	--	--	--	--	--	0.06 T	--
305/20E-08H02 M												
01/13/75	5701			72 F	--	--	--	--	--	0.008 T	--	--
	0001 5701				--	--	--	--	--	--	0.26 T	--
305/20E-17A01 M												
10/09/74	5701			70 F	--	--	--	--	--	0.016 T	--	--
	5701			402	--	--	--	--	--	--	0.54 T	--
05/05/75	5701			70 F	--	--	--	--	--	0.020 T	--	--
	5701				--	--	--	--	--	--	0.00 T	--
305/20E-18A01 M												
09/09/75	5701			60 F	--	--	--	--	--	0.018 T	--	--
	5701				--	--	--	--	--	--	0.01 T	--
305/20E-18E01 M												
02/12/75	5701			67 F	--	--	--	--	--	0.014 T	--	--
	5701				--	--	--	--	--	--	0.02 T	--



LEGEND

- DISTRICT OR AREA BOUNDARIES
- 5-22.00 NUMBERS INDICATE CODE CLASSIFICATION
- FOOTHILL LINE
- BEDROCK LINE
- CALIFORNIA AQUEDUCT AND TURNOUTS
- WELLS MEASURED ANNUALLY OR SEMI-ANNUALLY DATA SHOWN ON TABLE

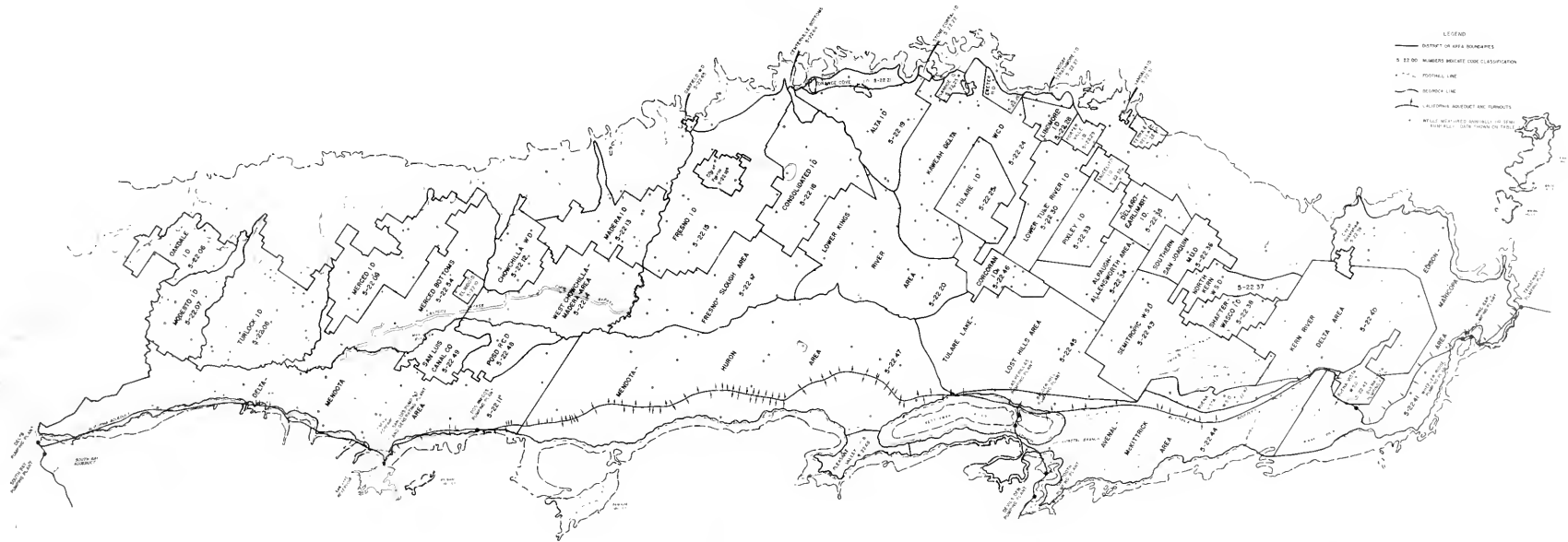


STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1975

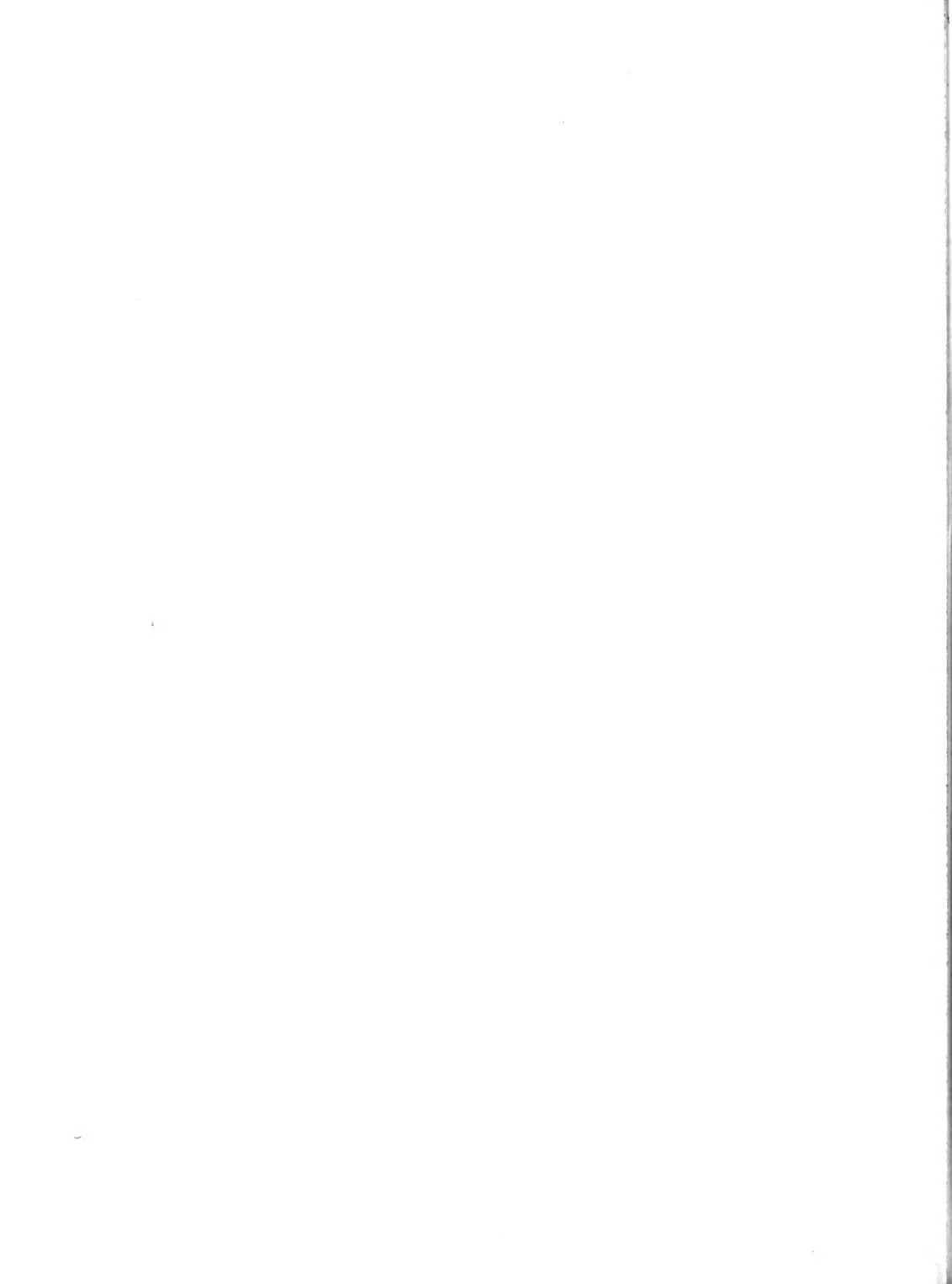
GROUND WATER AREAS AND
SELECTED OBSERVATION WELLS

SCALE OF MILES
0 6 12



STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1975
GROUND WATER AREAS AND
SELECTED OBSERVATION WELLS

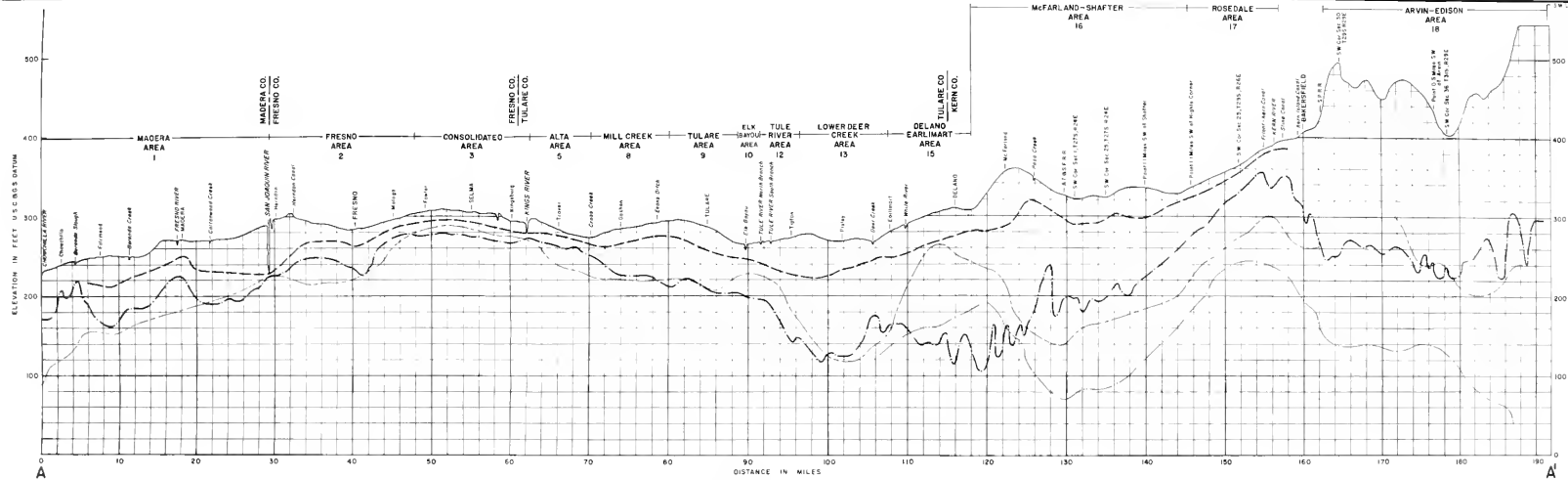




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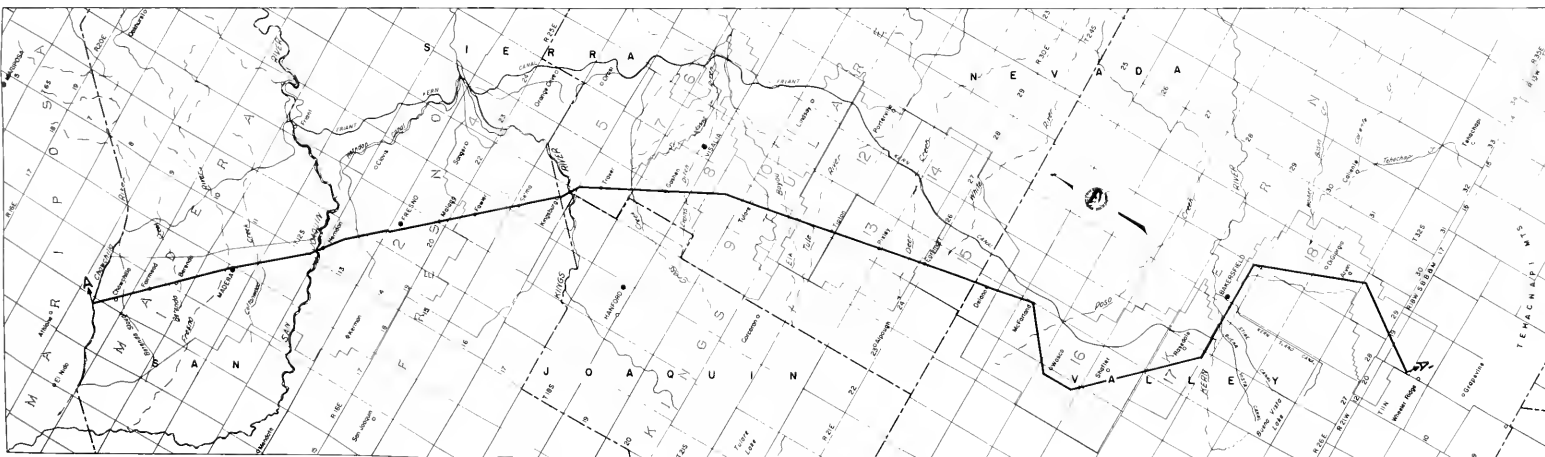


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ON



HISTORIC DATA PRESENTED
IN FIGURE C-1 FOR FOLLOWING AREAS

1. MADERA
2. FRESNO
3. CONSOLIDATED
4. CENTERVILLE BOTTOMS
5. ALTA
6. IVANHOE
7. OUTSIDE IVANHOE
8. MILL CREEK
9. TULARE
10. ELA BAYOU
11. LINDSAY-EXETER
12. TULL RIVER
13. LOWER DEER CREEK
14. MIDDLE DEER CREEK
15. DELANO-EARLIMART
16. McFARLAND-SHAFTER
17. ROSEDALE
18. ARVIN-EDISON



STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1975

MAP OF SELECTED GROUND WATER AREAS
IN THE SAN JOAQUIN VALLEY
AND
PROFILES ALONG SECTION A-A' SHOWING
GROUND WATER LEVELS IN 1921, 1951 & 1975

SCALE OF MILES
0 3 6 9 12 15



1. 1000 FEET
 2. 500 FEET
 3. 200 FEET
 4. 100 FEET
 5. 50 FEET
 6. 20 FEET
 7. 10 FEET
 8. 5 FEET
 9. 2 FEET
 10. 1 FOOT
 11. 0.5 FOOT
 12. 0.2 FOOT
 13. 0.1 FOOT
 14. 0.05 FOOT
 15. 0.02 FOOT
 16. 0.01 FOOT
 17. 0.005 FOOT
 18. 0.002 FOOT
 19. 0.001 FOOT
 20. 0.0005 FOOT
 21. 0.0002 FOOT
 22. 0.0001 FOOT
 23. 0.00005 FOOT
 24. 0.00002 FOOT
 25. 0.00001 FOOT
 26. 0.000005 FOOT
 27. 0.000002 FOOT
 28. 0.000001 FOOT
 29. 0.0000005 FOOT
 30. 0.0000002 FOOT
 31. 0.0000001 FOOT
 32. 0.00000005 FOOT
 33. 0.00000002 FOOT
 34. 0.00000001 FOOT
 35. 0.000000005 FOOT
 36. 0.000000002 FOOT
 37. 0.000000001 FOOT
 38. 0.0000000005 FOOT
 39. 0.0000000002 FOOT
 40. 0.0000000001 FOOT
 41. 0.00000000005 FOOT
 42. 0.00000000002 FOOT
 43. 0.00000000001 FOOT
 44. 0.000000000005 FOOT
 45. 0.000000000002 FOOT
 46. 0.000000000001 FOOT
 47. 0.0000000000005 FOOT
 48. 0.0000000000002 FOOT
 49. 0.0000000000001 FOOT
 50. 0.00000000000005 FOOT
 51. 0.00000000000002 FOOT
 52. 0.00000000000001 FOOT
 53. 0.000000000000005 FOOT
 54. 0.000000000000002 FOOT
 55. 0.000000000000001 FOOT
 56. 0.0000000000000005 FOOT
 57. 0.0000000000000002 FOOT
 58. 0.0000000000000001 FOOT
 59. 0.00000000000000005 FOOT
 60. 0.00000000000000002 FOOT
 61. 0.00000000000000001 FOOT
 62. 0.000000000000000005 FOOT
 63. 0.000000000000000002 FOOT
 64. 0.000000000000000001 FOOT
 65. 0.0000000000000000005 FOOT
 66. 0.0000000000000000002 FOOT
 67. 0.0000000000000000001 FOOT
 68. 0.00000000000000000005 FOOT
 69. 0.00000000000000000002 FOOT
 70. 0.00000000000000000001 FOOT
 71. 0.000000000000000000005 FOOT
 72. 0.000000000000000000002 FOOT
 73. 0.000000000000000000001 FOOT
 74. 0.0000000000000000000005 FOOT
 75. 0.0000000000000000000002 FOOT
 76. 0.0000000000000000000001 FOOT
 77. 0.00000000000000000000005 FOOT
 78. 0.00000000000000000000002 FOOT
 79. 0.00000000000000000000001 FOOT
 80. 0.000000000000000000000005 FOOT
 81. 0.000000000000000000000002 FOOT
 82. 0.000000000000000000000001 FOOT
 83. 0.0000000000000000000000005 FOOT
 84. 0.0000000000000000000000002 FOOT
 85. 0.0000000000000000000000001 FOOT
 86. 0.00000000000000000000000005 FOOT
 87. 0.00000000000000000000000002 FOOT
 88. 0.00000000000000000000000001 FOOT
 89. 0.000000000000000000000000005 FOOT
 90. 0.000000000000000000000000002 FOOT
 91. 0.000000000000000000000000001 FOOT
 92. 0.0000000000000000000000000005 FOOT
 93. 0.0000000000000000000000000002 FOOT
 94. 0.0000000000000000000000000001 FOOT
 95. 0.00000000000000000000000000005 FOOT
 96. 0.00000000000000000000000000002 FOOT
 97. 0.00000000000000000000000000001 FOOT
 98. 0.000000000000000000000000000005 FOOT
 99. 0.000000000000000000000000000002 FOOT
 100. 0.000000000000000000000000000001 FOOT

STATE OF CALIFORNIA
 THE RESOURCE AGENCY
 DEPARTMENT OF WATER RESOURCES
 SAN JOAQUIN DISTRICT
 HYDROLOGIC DATA DIVISION
 LINES OF EQUAL ELEVATION
 OF WATER IN WELLS
 SAN JOAQUIN VALLEY
 SPRING 1975
 SCALE 1:50,000



EXPLANATION

—100—
PRESSURE-SURFACE CONTOUR
LINES OF EQUAL CHANGE OF PRESSURE SUR-
FACE IN AQUIFERS THAT ARE CONFINED
OR SEMI-CONFINED; CONTOUR INTER-
VAL 20 FEET, DASHED WHERE INFERRED

-20-
UNCONFINED CONTOUR
LINES OF EQUAL CHANGE OF WATER LEV-
ELS IN UNCONFINED AND SEMI-CON-
FINED AQUIFERS; CONTOUR INTER-
VAL 5 AND 10 FEET

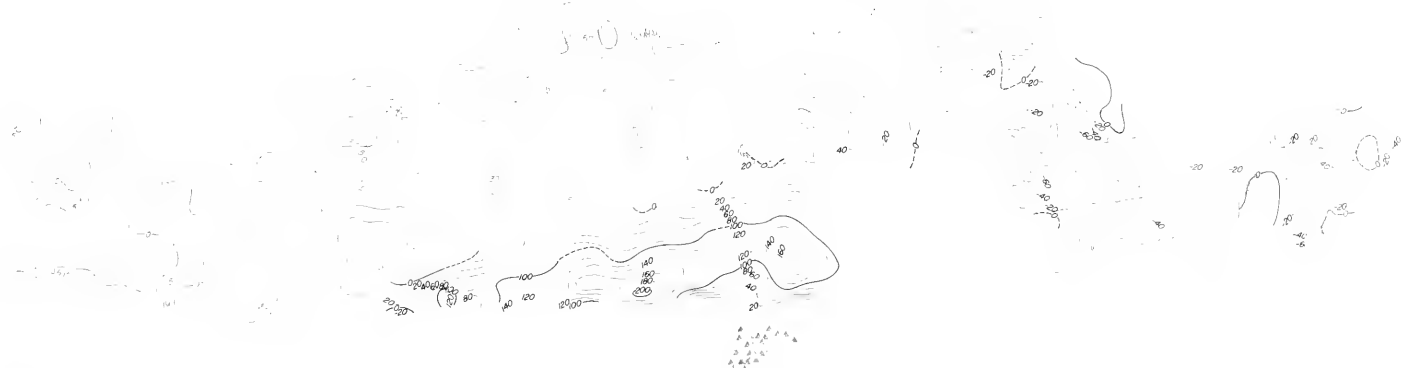
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GROUND WATER BARRIER
INDIVIDUAL WELL CHANGE

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1975

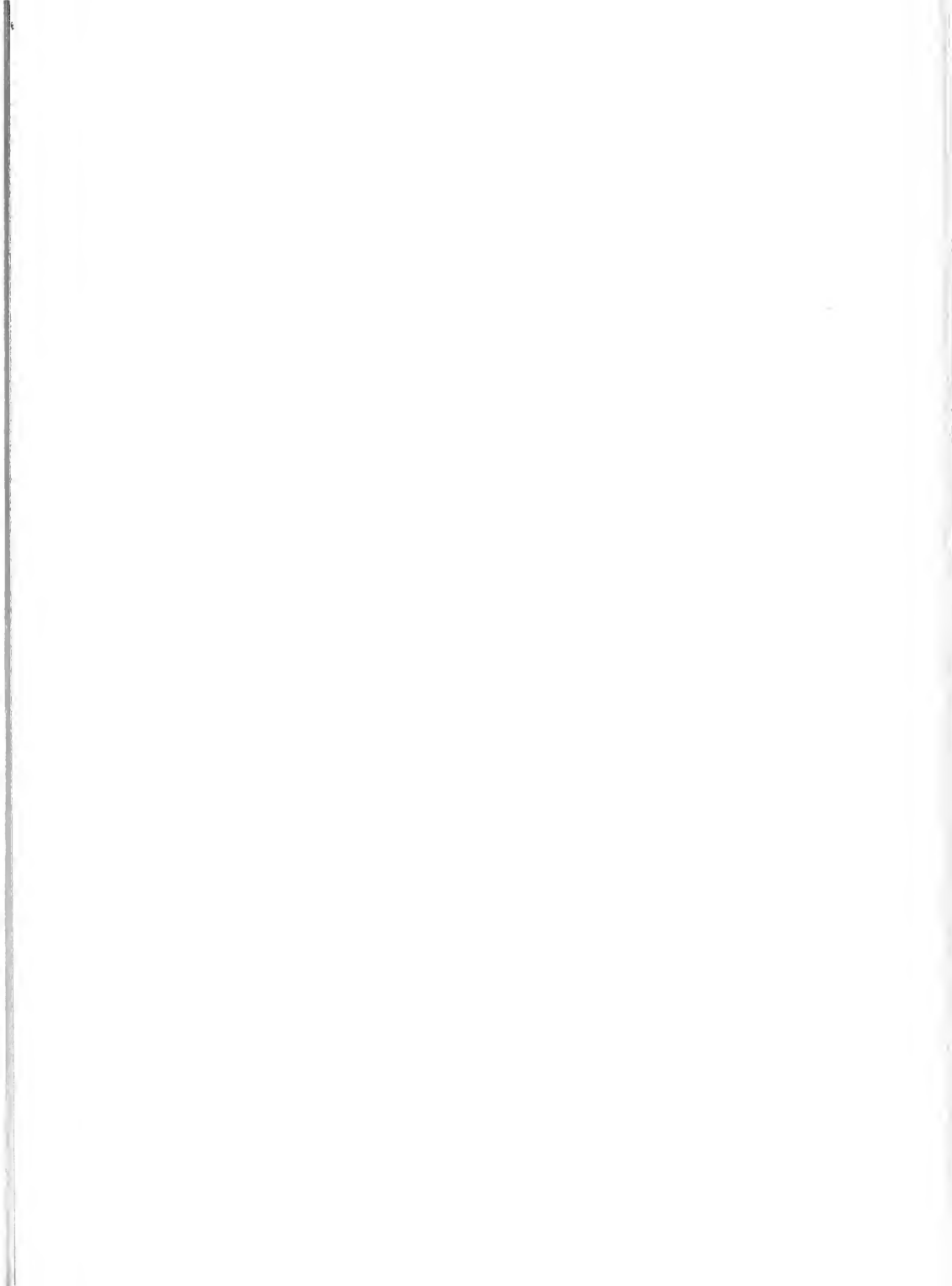
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LINES OF EQUAL CHANGE
OF WATER LEVELS IN WELLS
PRESSURE SURFACE AND UNCONFINED AQUIFERS
SAN JOAQUIN VALLEY
SPRING 1970 TO SPRING 1975

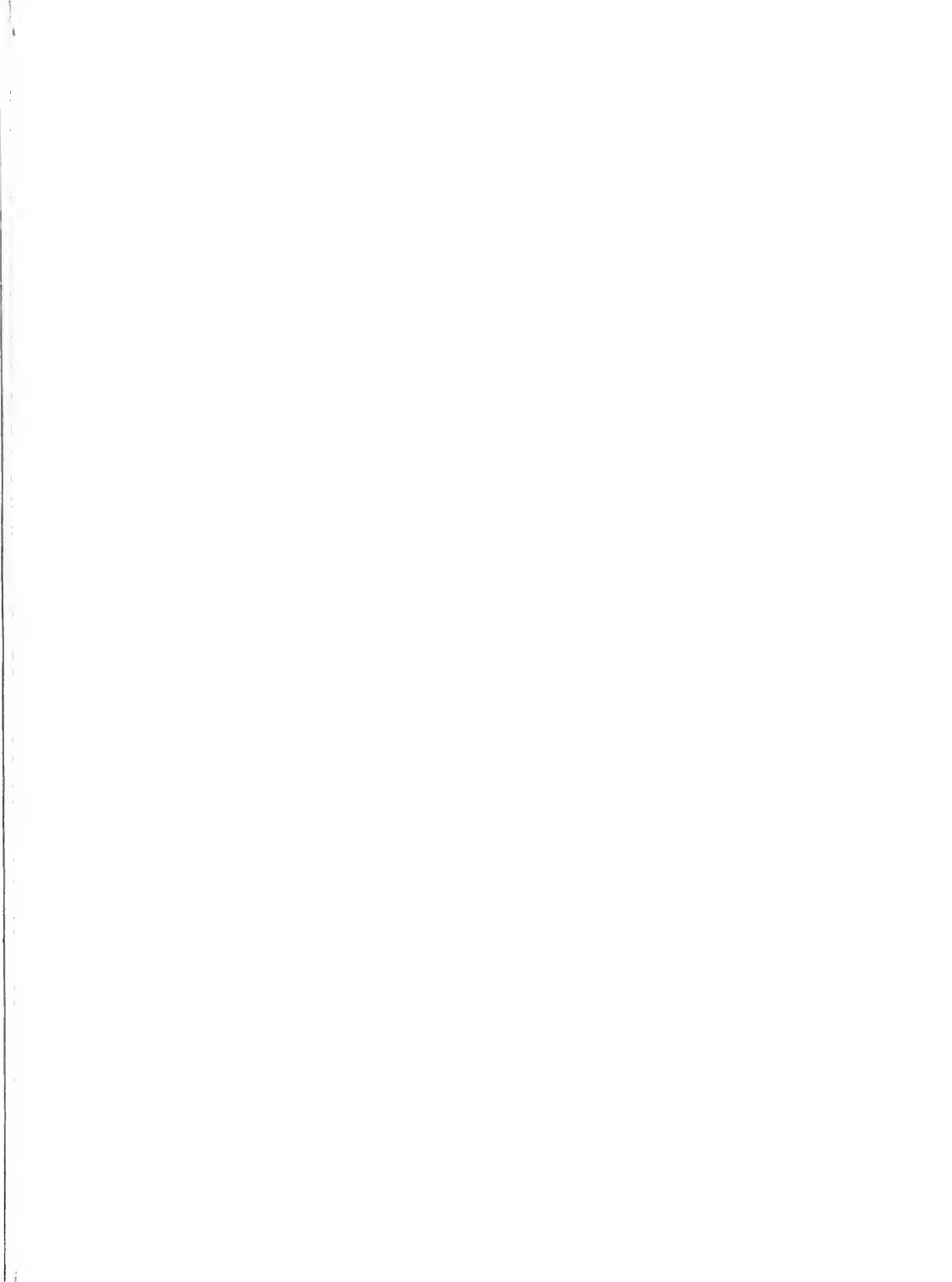
SCALE OF MILES
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1. LINE OF EQUAL CHANGE IN
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STATE OF CALIFORNIA
 THE RESOURCE AGENCY
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